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Volume II of this study reports two nationwide surveys of distributive education teacher-coordinators: (1) survey of time and place for teaching distributive education topics and (2) survey of added training needed by the teacher-coordinator. From the population of both the high schools and the community colleges, a systematic random sample of names was selected from a list of all high school coordinators; 430 for one survey and 451 for the other. From the community colleges, the total of 364 names was randomly divided with one half receiving one questionnaire and the other half receiving the other. Two principal conclusions were drawn from this study: (1) In the time available to most distributive education programs, both high school and community college distributive education graduates can be adequately prepared, and (2) neither high school nor community college teacher-coordinators feel any great need for additional training in subjects or personal characteristics which they believe belong in the distributive education classroom. From these, it is recommended that (1) curriculum involve teachers from other disciplines, (2. curriculums be reviewed in each state, and (3) formal arrangement with employers be made to supervise personal development on the job. Volume I is available as VT 007 952. (MU)



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FINAL REPORT
Project No. 5-1327
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IN THE FIELD OF DISTRIBUTION AND MARKETING AT VARIOUS LEVELS

OF EDUCATION

Places to Teach, Time Requirements, and Teacher Preparation

Volume II of II Volumes

January 1969

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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Charles E. Peck, Principal Investigator F. L. Denman, Co-Investigator

University of Washington Seattle, Washington

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#### CONTENTS

	Pag
SUMMARY	. 1
INTRODUCTION	• 3
METHOD AND RELIABILITY	
SURVEY OF TIME AND PLACE TO TEACH DISTRIBUTIVE EDUCATION TOPICS	. 9
Response Rate	
Explanation of Tables	
High School Programs	. 21
Subject Areas for High School Distributive Education	
Classrooms	. 21
Preferred Locations for Teaching High School Subject Areas.	-
Preferred High School Locations for Developing Personal	•
Characteristics	. 27
Required Hours for High School Subject Areas	
Required hours for high School Subjects and	
Time and Place for Most Important High School Subjects · · ·	٠ )
Place for Most Important Personal Characteristics for	• 35
High School	
Conclusions for High Schools	• 35 • 37
Community College Programs	• 5
Subject Areas for Community College Distributive Education	• 37
Classrooms	• 5
Preferred Locations for Teaching Community College Subject	25
Areas	• 37
Preferred Community College Locations for Developing	
Personal Characteristics	• 53
Required Hours for Community College Subject Areas	• 56
Time and Place for Most Important Community College Subjects.	• 56
Place for Most Important Personal Characteristics for	(-
Community Colleges	• 61
Conclusions for Community Colleges	• 63
	<b>~</b> 1
SURVEY OF ADDITIONAL TRAINING NEEDED	• 64
Response Rate	. 64
High Schools	. 65
Hours in Distributive Education Program Devoted to Most	•
Important Subjects	. 69
Coordinators' Need for Additional Education in Subject Areas.	
Important Subjects Needing Most Education	. 67
Important Subject Areas Needing Less Education	
Coordinators' Need for Additional Education or Training for	
Developing Personal Characteristics	. 70
Important Characteristics Needing Most Training	. 73
Important Characteristics Needing Less Training	. 72
Degree of Preparation in General Distributive Education	
Teaching Matters	. 74
Conclusions	(ب



### Contents (continued)

	Pag
Community Colleges	7
Important Subjects	7
Important Judicto	7
Coordinators' Need for Additional Education in Subject Areas.	7
Important Subjects Needing Most Education	
Important Subject Areas Needing Less Education	7
Coordinators' Need for Additional Education or Training	
for Developing Personal Characteristics	8
Important Characteristics Needing Most Training	8
Important Characteristics Needing Less Training	8
important characteristics needing less italians	•
Degree of Preparation in General Distributive Education	8
Teaching Matters	_
Conclusions	8
CONCLUSIONS AND RECOMMENDATIONS	8
APPOINTE CONTINUE	8



#### LIST OF TABLES

Table	No.		rage
1		Time and Place for Specific Areas of Knowledge and Skills in High School Distributive Education Programs	11
2		Places in High School D.E. Programs, Including Best Places, Where Personal Characteristics Can Be Taught or Developed	16
3		Subject Ranking According to Whether High School Respondents Believe Subjects Should Be Included in the D. E. Curriculum.	22
4		High School Coordinators' Opinions on Where D. E. Subjects Should Be Taught	24
5		High School Coordinators' Opinions on Where Personal Characteristics Should Be Taught	28
6		Number of Hours High School Coordinators Believe Are Necessar, for Various Levels of Achievement	y 31
7		Time and Place for Most Important High School Subjects	34
8		Place for Most Important Personal Characteristics for High Schools	36
9		Time and Place for Specific Areas of Knowledge and Skills in Community College Distributive Education Programs	38
10		Places in Community College D. E. Programs, Including Best Places, Where Personal Characteristics Can Be Taught or Developed	43
11		Subject Ranking According to Whether Community College Respondents Believe Subjects Should Be Included in the D. E. Curriculum	48
12		Community College Coordinators' Opinion on Where D. E. Subjects Should Be Taught	50
13		Community College Coordinators' Opinions on Where Personal Characteristics Should Be Taught	54
14		Number of Hours Community College Coordinators Believe Are Necessary for Various Levels of Achievement	57
15		Time and Place to Teach Most Important Community College Subjects	60
16		Place for Most Important Personal Characteristics for Community Colleges	62



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Mr. James L. Blue, State Supervisor, Distributive Education, Olympia, Washington.

Mr. David Starr, Departmental Assistant, Business Education Department, Seattle Public Schools, Seattle, Washington.

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questionnaire and returned it so promptly. Also, special thanks go
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not related to the questions themselves. These voluntary remarks
revealed the respondents' enthusiasm for the distributive education
field and the importance they feel toward helping their students find
themselves in the business world.

Charles E. Peck, Ph.D. Frederick L. Denman, Ph.D.



#### SUMMARY

This report, labeled Volume II, is an outgrowth of Volume I, in which the relative importance of subject areas and personal characteristics in marketing and distribution jobs was discussed. The surveys for the first volume were taken entirely within the State of Washington.

Upon completing the first volume, the authors decided 2 matters needed further investigation:

- 1. The views of teacher-coordinators in the nation as a whole with regard to the place and length of time to teach or develop these subjects and personal characteristics.
- 2. Teacher-coordinators' perceptions of how well prepared they are to teach or develop these subjects and characteristics.

As a result, the following 2 sets of questionnaires were sent to high schools and community colleges throughout the United States.

- 1. One survey inquired about places and length of time to teach certain subject areas and personal characteristics. Because a similar form was sent previously (for Volume I) to coordinators within the State of Washington, this questionnaire was mailed only within the remaining 49 states on a systematic, random basis.
- 2. Another survey about need for additional teacher-training was mailed to teacher-coordinators in all the 50 states. It used a complete census of all coordinators in Washington State and a systematic, random sampling in the other 49 states.

Thus, Volume I presents the thinking of businessmen and teacher-coordinators—all within the State of Washington, while Volume II presents the thinking of only teacher-coordinators (regarding both places and length of time to teach certain subject areas and their degree of preparation in them), but on a national basis.

Two principal conclusions can be drawn from this study:

- 1. In the time available to most distributive education programs, both high school and community college distributive education graduates can be adequately prepared in those subjects which businessmen say are most important to them on the job.
- 2. Neither high school nor community college teacher-coordinators feel any great need for additional training in the subjects or personal characteristics which they believe belong in the distributive education classroom.



Based upon these conclusions, it is recommended:

- 1. Curriculum designers should make every effort to involve teachers from other disciplines (such as Mathematics and English) in teaching certain subjects that are important to distributive education graduates.
- 2. The distributive education curriculum in each state should be reviewed with a view toward putting appropriate emphasis and time (as shown in this study) on those distributive education subjects which are best taught in the distributive education classroom.
- 3. Eventually some formal arrangement needs to be made with employers involved in cooperative programs to supervise the development of those personal characteristics best handled on the job. But, in the meantime, these characteristics should continue to be developed in the classroom whenever possible.



#### INTRODUCTION

Volume I of this study reports the results of 2 surveys conducted entirely within the State of Washington. One of these surveys went to businessmen and the other to distributive education teacher-coordinators in high schools, vocational schools, and community colleges. By relating the results of these 2 surveys, Volume I shows:

- 1. What subject areas and personal characteristics the business community says are important for those persons who hold marketing and distribution jobs.
- 2. Where the business community and the teacher-coordinators in the State of Washington believe these subjects and characteristics should be taught or developed.
- 3. How long the teacher-coordinators believe it would take in classroom hours for the average student to reach 3 specified levels of achievement.1

Even though the business survey was conducted entirely within the State of Washington, the authors believe that it provides a basis for valid inferences anywhere within the United States. They believe that the requirements of marketing and distribution jobs vary from industry to industry—but not from place to place or state to state. Therefore, the broad industry sample taken in the State of Washington was not duplicated for the nation as a whole. However, the administration of state distributive education programs, the support these programs receive from school boards, and the way they are perceived by the teachers themselves probably vary considerably from state to state. Therefore, the authors duplicated the Washington study with a nationwide survey of distributive education teacher-coordinators; this volume reports its results.

In addition, it became apparent during the preparation of Volume I that the school superintendents, administrators and curriculum designers need some measure of how well equipped distributive education teacher-coordinators are to teach various subject areas. Therefore, Volume II also reports the results of a separate nationwide survey of teacher-coordinators designed to discover how much additional education or training they feel they need in various subject areas and personal characteristics. Finally, this volume relates these nationwide surveys to the business survey reported in Volume I.



<sup>1.</sup> See page 58 in Volume I for details; the 3 levels are: Acquire a General Notion. Ability to Talk About, and Ability to Apply on Job.

Thus, this volume -- coupled with Volume I--shows what is important for the distributive education graduate to know, where he should learn it, how long it takes him to learn it, and how well prepared his teacher-coordinators believe they are to teach it at present.

This report presents a discussion of the method used in the 2 nationwide surveys, the findings of these surveys, and the conclusions and recommendations which are appropriate. The discussion of the method, plus the materials in the appendixes of this volume and Volume I, give enough information to enable state distributive education offices to perform their own studies if they feel that results more specific to their own areas are necessary.

#### METHOD AND RELIABILITY

Each of the 2 surveys in this study was conducted among a nationwide sample of teacher-coordinators. A list of all distributive education teacher-coordinators in each state was obtained from the office of each State Director of Distributive Education. On these lists high school coordinators were easily identifiable, so that the final list from which the high school sample was drawn was both accurate and complete. However, the identification of distributive education coordinators at the community college level was a bit more difficult.

For the high schools, a systematic random sample of about 400 names was selected from the list of all teacher-coordinators throughout the United States for each of the 2 surveys. When questionnaires were returned indicating that the respondent had transferred or resigned, a substitute name was drawn at random as a replacement. For the community colleges, there were only a total of 364 names on the list. Therefore, the list was randomly divided and one-half the total respondents received the questionnaire pertaining to their own need for additional education and the other half received the questionnaire pertaining to the number of classroom hours necessary to teach various subjects to their students. In addition, the follow-up to non-respondents involved 2 letter reminders. The final response rates for these questionnaires are reported on pages 9 and 64.

Both questionnaires were tested by mail in the State of Washington and mailed nationally to the respondents between January and March of 1968. The results were keypunched and tabulated by computer at the University of Washington.

One limitation of the study is worthy of note. Several of the community college respondents mentioned that response to one question-naire was difficult because they could not clearly distinguish between distributive education programs and distributive education classrooms. They reported that because college-level programs are



<sup>1.</sup> Two-year colleges are identified by different terms in different parts of the country, and distributive education programs are often provided in 4-year rather than 2-year institutions. In addition, distributive education programs are not always identified under uniform terminology, so that it is difficult to tell whether a particular program is distributive education or not. Therefore, the final college list probably contains a few persons who would not identify themselves as distributive education coordinators, and probably omits a few who would. The study refers to all of them as community college coordinators.

<sup>2.</sup> Actually, 881 questionnaires were mailed to high school coordinators-430 for one survey, 451 for the other survey.

made up of several courses taught by different instructors, with perhap none of them being identified as distributive education per se, the questionnaire was ambiguous, and the reporting of the number of classroom hours necessary was imprecise. However, a careful reading of each returned questionnaire showed that most of the respondents in the college survey interpreted the questions correctly and answered appropriately. Where it was obvious that a respondent had not done so, the questionnaire was not included in the final tabulation.

Turning now to the question of reliability, we can say in general terms that by observing certain cautions, the principal findings of this study can be used with confidence in making curriculum decisions. In the "Time and Place" surveys all results given in percentages are reasonably reliable (see details below), and all results given in the median hours where the number of respondents is fairly large are accurate within an hour or two. Because some answers were optional and only a few respondents elected the option in certain cases, there are some results based on answers by only a few persons. These are of very little value. In the "Additional Training" survey the same remarks apply, especially for subjects which most coordinators felt did not belong in the distributive education curriculum. In those cases the rankings must be largely disregarded.

In more precise terms, we must say that the statistical reliability of inferences about the general populations of high school teacher-coordinators and community college teacher-coordinators in this study is indeterminate, because there is substantially less than 100 per cent response in each case.

For the proportion of the population represented by those who did respond, the reliability is fairly good for the high school surveys. First, for those results which are given in percentages, it varies in the "Time and Place" survey at the 95 per cent level of confidence from about ± 1 per cent (where the percentage figures are either very high or very low and the omitted responses are few) to about ± 6 per cent (where the percentage figures approach 50 per cent and omitted responses are large). In the "Additional Training" survey, the corresponding figures are ± 1 per cent to ± 13 per cent. Second, for those results which are in median hours, the reported figures could vary at the 95 per cent level of confidence in both surveys from less

Register in the community college survey were perceived by most respondents as not belonging in the distributive education curriculum and therefore only a few respondents rendered judgments about the amount of additional training they needed in them. Thus, for those items the reliability is quite low. However, for the items on which there was general agreement that they belonged in the distributive education curriculum the reliability is good.

than about 1 hour (where the median hours are low, the reported range is small, and the number of respondents is large), to several hours (where the median is high, the range is large, and the number of respondents is small). Most are probably reliable within plus or minus an hour or two (see Tables 1, 6, and A8). Finally, those results which are given as rankings in the "Additional Training" survey could be in error by plus or minus 1 or 2 places where the number of respondents is large, to plus or minus 4 to 5 places where it is small (see Tables All and Al6).

For the community college surveys, the reliability is somewhat lower, varying from about  $\pm$  6 per cent to  $\pm$  10 per cent for the percentages in the "Time and Place" survey, and from about  $\pm$  6 per cent to  $\pm$  20 per cent in the "Additional Training" survey. The reliability of the median is, again, from about plus or minus 1 hour to plus or minus several hours, with most being within an hour or two for both surveys (see Tables 9, 14,A22). The place rankings in the "Additional Training" survey vary from plus or minus 8 places to plus or minus 27 places (see Tables A 24 and A29).

Budgetary restrictions prevented a formal attempt to estimate the variations which might have occurred in the results of these studies if the non-respondents had been included. However, some informal checks and the experience gained in the surveys in the State of Washington for Volume I lead the authors to believe that the non-respondents can be described in 3 groups, as follows: the first, and probably the largest group, is made up of younger teacher-coordinators, many of them in their first year, who did not respond because they believed they did not have the experience necessary to make the judgments which the questionnaires required; the authors believe that this group would not have changed the results materially. The second group is made up of those who were not convinced of the importance of the study; and because the questionnaire required substantial effort to complete, they simply refused to take the time; this group's judgments probably do differ from the responding group in some ways, but it is impossible to know how. The final group is probably the smallest and is a miscellaneous one, representing those



<sup>1.</sup> Subjects such as Dictaphone in the high school survey and Cash Register in the community college survey were perceived by most respondents as not belonging in the distributive education curriculum and therefore only a few respondents rendered judgments about the amount of additional training they needed in them. Thus for those items the reliability is quite low. However, for the items on which there was general agreement that they belonged in the distributive education curriculum the reliability is good.

<sup>2.</sup> For "Additional Training" data pertaining to the State of Washington only, the reliability is substantially lower for both high schools and community colleges.

who are openly hostile to any sort of survey efforts, are critical of this particular instrument, or intended to reply but did not get around to it. It is doubtful that they would have changed the result substantially.



## SURVEY OF TIME AND PLACE TO TEACH DISTRIBUTIVE EDUCATION TOPICS

The questionnaire on time and place to teach distributive education topics was mailed nationally (except for Washington State) to a sampling of teacher-coordinators in high schools and to half the coordinators in 2-year post-secondary schools.

#### Response Rate

The number of questionnaires sent and the per cent of usable returns are shown below:

	High Schools	Community Colleges
Sent	451	177
Returned	33 <sup>1</sup> 4	126
Not usable	O	18
Usable	33h	108
Per cent usable returns	74%	61%

#### Explanation of Tables

This chapter is divided into 2 sections--High Schools Programs and Community College Programs--and there are 2 basic tables for each.

For the high school section these 2 tables are numbered and identified as follows:

- Table 1 Time and place for specific areas of knowledge and skills in high school distributive education programs, pp. 11 to 15.
- Table 2 Places in high school distributive education programs, including best places, where personal characteristics can be taught or developed, pp. 16 to 20.

For the community college section these 2 tables are numbered and identified as follows:

- Table 9 Time and place for specific areas of knowledge and skills in community college distributive education programs, pp. 38 to 42.
- Table 10 Places in community college distributive education programs, including best places, where personal characteristics can be taught or developed, pp. 43 to 47.



<sup>1.</sup> See pp. 91 to 98, the Appendix, for a copy of the questionnaire.

Tables 1 and 9 have 10 columns each and show:

- 1. Whether each of the subject areas used in this study is a distributive education subject.
- 2. Where it should be taught.
- 3. Number of hours needed to raise the average student to each of 3 different levels of understanding in that subject.
- Median hours rather than mean hours (as in Volume I), because the means were too heavily weighted by extreme values. (Therefore, direct comparison between Tables 1 and 2 in Volume 2 and Tables 17 and 19 in Volume I are meaningless.)

The second table in each section (Tables 2 and 10) shows where each of the personal characteristics examined in this study can be taught and where it is best taught. Both these measures are included so that there is an indication of alternate places in which coordinators believe the subject can be taught. These alternates might be useful knowledge to some school districts that are prevented from teaching the subject area in the place where teacher-coordinators believe it is best taught.

The other tables throughout this chapter are based on these basic tables. They rearrange the data in some way or make some additional computations from it. As shown in Tables 1, 2, 9, and 10, they consider which subjects and personal characteristics should be included in the distributive education curriculum, whether or not they should be taught in the distributive education classroom, and how many classroom hours are needed to teach distributive education subjects. In addition, Tables 7, 8, 15, and 16 summarize these matters for the list of subjects and personal characteristics which businessmen say are most important. Finally, although the discussion does not require cross tabulations by age, teacher experience, etc., classification data about the respondents appear in Tables Al and A2 of the Appendix.



<sup>1.</sup> The authors computed the means for the national sample, and the comparison of them with Volume I figures shows Washington values to be substantially larger. This occurs partly because in the national survey any value over 99 was recorded as 99, which was not the case in the Washington survey, and partly because the Washington D. E. programs have more classroom hours available than the program in many states, and therefore, Washington teacher-coordinators probably tend toward the opinion that more hours are required.

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Thme and Place for Specific Areas of Knowledge and Skills in High School Distributive Education Programs (Total Teacher-Coordinators Responding -  $33^4$ )

The first 6 columns show the per cent of teachers who indicated that the statement in the column applied to each item; the next 3 columns show the average (median) of teacher judgments on hours to each level for each knowledge and skill item. The last column indicates the number of teachers who did not respond to the item.

٦	Number of omitted responses	(freg.)	,	30 37	- 8 8 8	37	000	36	35	45	, <del>, , , , , , , , , , , , , , , , , , </del>	)	43		0†	45	33
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Ħ	Ability to talk about it	(hrs)		ֆ տ	<b>,</b> ₪	<b>.</b>	4	9	9	ſ	ノユ	F	7		ω	<b>\</b>	m
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ф	In D.E. class	(%)		50°0	44°1	25.9	0° †7		86.0	t c	2. C. S.	21.0	7.0	1	°	13.8	92.4
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	multiplicationb. Business arithmetic	15.9	57.0	15.3	45.7	<b>4</b>	٠ ٢	^	o	24	<b>)</b>
	-	1.0	95.8	35.5	17.5	3.6	2.1	5	6	15	a
		9.6	4.79 4.36	22.4 39.9	33.2	7 H	9.3	๛๗	<b>ω</b> ω	۲.	12
12	e. Higher mathematics f. Statistics	65.4 47.8	22.6	3.0	26.7	5.3	0.9	m a	$\kappa$	νo	16
	Human Relations										
	<ul><li>a. Ability to get others</li><li>to work effectively</li></ul>	2.7	93.4	45.9	13.0	3.3	8° 4	ณ	'n	∞	က
	b. Ability to work with others	0.3	95.8	51.1	14.8	2.7	2.1	α	7	Φ	m
	-	3.6	92.4	η°6η	13.6	2.7	5.2	α	.4	2	4
	d. Ability to deal with superiors	e.0 0	96.7 98.8	45.9 47.1	8.8 11.8	0.0°	1.8	ณ ณ	<b>4</b> 4	7.7	mm

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c. Advertisingd. Sales promotion	•	2	•		`					
	0.3	97.2	1.04	2.		1.8	ار در	01	77	<b>a</b> a
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f. Fashion trends	0.0	94.0	57.3 45.3	- m'	1.5	0.5	i rv (	9-	10	ת נ <u>ר</u>
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	0.0	94.3	50.7	5.7	0.3	3.6	<b>⊅</b> (	у ш	010	m m
•	0.0	96.4 72.3	38 <b>.</b> 7	12°42	ი ლ ლ	3.0	ฑณ	<b>ν ι</b> ν	9	13
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bution	· ·	0.16	-			<b>,</b>	•			
Financial Records										1
a. Bookkeeping	28°h	29.3	11.4	57.1	0.4	<b>5.</b> 6	ľ	10	15	10
<pre>b. Reading financial statements</pre>	18.3	51.6	10.2	43.5	0.4	10.6	α	<b>4</b>	~	12
c. Accounting (more than bookkeeping and										
reading financial statements)	6.94	12.3	3.1	43.1	3.8	<b>ተ°</b> ተ	m	ľ	ω	16

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A.

J (freq.)		13 20 15	יָל גִּ	ì	14	13	15	18 18	15	17
I (hrs)		10 10 5	<i>'</i> νο ιν	`	∞	∞.≄	60	νν	ω	ĸκ
H (brs)		01 0 1 0 1 0 1 0	nen e	ר	5	IV (VI	તાત≄	നന	2	<b>4</b> 4
G (hrs)		4004	I (i) (i)	l	α	ત્ય ન	ณ ณ	a a	m	ณ ณ
F (%)		8.8.2.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	7. 6	<u>;</u>	13.4	უ• დ	7.0	16.0 9.8	7.5	10.7
₩ <b>%</b>			•	•	& &	• •	• •	• •	<b>†•</b> †	0, 0, 1, 0,
£ €			•		16.2				32.3	18.0
υ <b>%</b>		0 4 0 C	143.33 C. E. E.	) 	29.1	12.8	2.4°	14.3 20.6	13.2	12.0
д <b>%</b>		4°4 6°0 17°5	95.0	•	4.68	91.3	69.5 93.4	74.9 90.5	75.2	92.7
A (%)	Machines of Business	Typewriter	Cash register		ω .	Free enterprise system in general	Economic cycles Business locations	Forecasting	inoney, etc.) 8.5 i. Sources of funds for	a business 2.8 j. Role of profit 1.9
	B C D E F G H I (%) (%) (%) (%) (%) (hrs) (hrs)	A B C D E F G H I (%) (%) (%) (%) (hrs) (hrs)	$ \begin{pmatrix} A & B & C & D & E & F & G & H & I \\ (\phi) & ($	$ \begin{pmatrix} A & B & C & D & E & F & G & H & I \\ (\beta) & (\mu_{1}s) & (\mu_{1}s) & (\mu_{1}s) \\ (\beta) & (\mu_{1}s) & (\beta) &$	A B C D E F G Hrs) (hrs)	A B C D E F G Hrs) (hrs)	## B C D E F F G Hrs) (hrs) (hrs) (hrs)  ### B C D E F F G G Hrs) (hrs) (hrs)  ### B C D E F F G G Hrs) (hrs) (hrs)  ### B C D E F F G G Hrs) (hrs) (hrs)  #### B C D E F F G G Hrs) (hrs) (hrs)  #### B C D E F F G G Hrs) (hrs) (hrs) (hrs)  ###################################	A B C B E F G Hrs) (hrs)	A B C D E F G (#) (#) (#) (#) (#) (#) (#) (#) (#) (#)	## B C D E F G (#) (#) (#) (#) (#) (#) (#) (#) (#) (#)

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		Ë	Table 1	(continued)	(pənu					
	(%)	(%)	υ <b>ξ</b>	₽ <b>%</b>	⊞ <del>&amp;</del>	F 86	G (hrs)	H (hrs)	I (hrs)	J (freq.
Other Knowledge										
— —	28.6 9.4 5.6	34.8 70.8 79.2 53.0	11.4 9.7 22.0	42.2 34.0 20.1 49.1	4004	12.3 9.1 14.9 8.5	വ വ വ ന	4 4 MV	22 201	9 2 1 9
f. Unitalismons	7.0 8.9	78°0 74°8	17.0	89 8. 69 8. 69	4. 8. 7.	7.0	ณ ณ	<i>ব</i> ব	νω	50
literature, art, and music)	49.5	14.3	3.4	38.0	7.2	2.5	ณ	rv	10	13
Business Organization, rocedure and Management										
a. Type of business organizationb. Business procedures	1.5	92.0	19.6	18.6	₹ <b>.</b> ८	3°0	Ø	ır،	ω	9
(orders, invoices, deliveries, etc.)	0 r1	91.2	37.4	15.2	٦°5	0°4	m	7	6	7
	9.4	84.6 86.3	30.9	12.3 8.4	4.4 2.0	4.6	01 OJ	<i>ব</i> ব	wω	10
	4,3	85.5	30°5	15.7	3.4	10.2	N	†	9	10

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Table 2 Places in High School D. E. Programs, Including Best Places, Where Personal Characteristics Can Be Taught or Developed

(Total teacher-coordinators responding 334 - best places may not total 100% because of rounding)

The "yes" column indicates the per cent of the respondents who thought the personal characteristic could be taught in that location; the "best" column indicates the per cent who thought that would be the best place to teach it.

							İ	1				
	Personal	D. E	E ECON	DECA	E Q	On-The-Job	e-Jop	Non D. E. Classroom	· E	Other	<b>L</b> i	Number Who Did Not
	Characteristics	yes	best	yes	best	yes	best	yes	best	yes	best	Answer
	Motivation or Caring About Job											
16		91.6	49.5	66.3	6.2	78.3	28.0	48.3	7.3	16.4	0.6	11
		83.1	19.5	43.9	0°8	94.5	75.8	31.0	1.3	6.1	1.3	ω
		4.16	38.9	70.5	23°6	85.8	33.4	38.5	3.7	3.7	0•3	6
	d. Fride in doing work well		22°1	78.5	•	8.46	65.8	39.8	Ĺ.0	†°L	7.5	Φ,
			30°7	83.4 4.07	•	88 89 80 80 80 80	29°3	35.1	۰ د ع «	⊅ v o v	با ر دا ر	ه 5
	<pre>i. Aggressiveness g. Ambition</pre>		32.1	75.3	12.6	988	100	33.0	์ ณ์	8	10.4	201
	h. Determinationi.	85.5	35.5	70.2 68.2	14°3 7°4	88.9 91.0	45.9 58.3	32.1	カ <b>・</b> カ・	4°5 6°2	ი പ ბ°დ°	10
	Mental Ability											
		87.9	52.0 34.3	43.3 76.7	32.8	81.4 83.0	26.2 25.1	50°5 41.0	20°1 7•4	5.0 4.0	ר°ָר ס•ָּר	11
	c. Quickness to grasp meaning	. 88.7	48.2	1,44.3	2,2	80.8	32.8	45.9	15.7	3.1	1,1	16

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Number Who Did Not Answer	4544 4144	ដដូន	ជ	11	13
best		0 H &	0.3	0.3	13. 08.
Other	ನ್ನನ್ನ <b>ೆ</b> ಯನ್ನ ಹಿಡುಗಳು	4 9 5 6 8 6 8 6	4,9	6.4	6.5
room best	12.3 8.3 1.9 7.0	3.00 4.00 1.00 1.00	0.7	7.8	5.0
Non D. E. Classroom yes best	33 44 40 40 40 40 40 40 40 40 40 40 40 40	38.4 38.1 35.4	28.2	32.8	32.7 31.5
On-the-Job es best	76.2 35.7 59.4 55.2	59.6 41.8 55.9	81.4	26.7	40.9 26.9
On-th yes	92.28 81.8 87.8 85.8 79.4	93.8 91.9 93.5	9.96	95.1	94.1 89.0
.am best	ลูพทูพล กุลนุดิ์	3.4 27.6 5.3	2.7	19.0	23.3 52.4
DECA Program yes be	63.7 48.6 57.8 54.3	61.9 77.7 73.3	73.1	76.8	78.2 84.5
E. sroom best	16.3 47.5 25.9 30.3 51.3	33.6 27.3 34.9	14.8	21.5	27.6 13.8
D. E. Classroom yes bes	80 89.7 83.6 89.0 89.0	94.7 89.5 91.9	4.98	89.2	87.5 81.4
Personal Characteristics	<ul> <li>d. Ability to apply knowledge</li> <li>e. Ability to analyze.</li> <li>f. Alertness</li> <li>g. Thinking quickly</li> <li>h. Memory</li> </ul>	Human Relations  a. Ability to take constructive criticism  b. Friendliness  c. Tactfulness  d. Ability to get along with people (deal with people)		<ul><li>easily to tark</li><li>easily with people.</li><li>f. Congeniality</li></ul>	
	<del>_</del> <del>_</del>	17			

	(	Ş	Table 2	O O	(continued)	ed)	;	ŗ	2		
Personal.	D. E. Classro	D. E. Classroom	DECA <b>Program</b>	l rem	On-the-Job	e-Jop	Non D. E. Classroom	. H	Other		Number Who Did Not
Characteristics	yes	best	yes	best	yes	best	yes	best	yes	best	Answer
Work Habits and Work Behavior											
Willingness to abide by											
regulations	91.4 86.0	29.5 22.5	60.5	2°7	96.3 95.9	4. 62. 4.	29.9 27.1	2.4 0.7	5.5	4°1	10
Actention to details	4.06	89.9	6.09	3.1	95.3	63.2	33.5	3.1	0. 4	7.0	टा
work on own	88.5 93.8	20°0 38°2	70.5	17.5	93.8	59•3 55.5	32.6 39.6	4.0 6.5	2°3	0.0	15 13
Willingness to take orders	89.8	13.7	62.1	2,1	97.2	82.8	33.9	J.0	5.6	7.0	12
Leadership											
Willingness to											
bility	82.1	13.3	88.3	9.44	91.9	40.1	31.8	0.7	5.6	1.1	10
Wet people to Work Well	78.0	11.0	84.5	54.5	87.6	32.5	8° 48	7.1	1.9	7.0	11
others	4°LL	15.6	83.3	41.1	87.6	37.9	28.5	3.5	4.3	<b>1.8</b>	11
Ablily to organize	83.9	22.5	88.8	2.95	83.2	15.7	29.5	8.4	2.5	0.3	12

			Table	و د	(continued	ned)					
	D. E.	• ( E	DECA	ş	On-the-Job	e-Jop	Non D. E.	国 区 区	Other		Number Who
	yes bes	best	yes	best	yes	best	yes	best pest	yes	best	Answer
Attitude Toward Job											
•	95.6	30.6	9.05	2.0	8.46	67.3	19.4	0.0	3.4	0.0	10
	87.0	15.0	46.3	2.0	6.36	82.7	14.8	0.3	1.5	0.0	10
c. Application to the task	83.5	12.5	54.0	1.7	97.2	8,48	17.7	0.7	1.9	0.3	12
Temperament											
a. Patienceb. Control of temper	88.9 89.1 90.1	33.3 34.8 33.2	484 1.6.4	6.0 8.7	4.06 89.8 90.4	55.4 53.0 50.7	33.1 31.7 31.8	0,0, w 0,00,0	0 0 0 0 0 0	0,00 0,00 0,00	1220
Other Individual Personality & Behavioral Characteristics	립										
a. Positive attitude (optimism) c. Safety consciousness d. Smile e. Hand shake f. Self-confidence g. Sincerity h. Initiative	88.8 90.0 91.5 91.5 87.3 87.6 93.1	57.7 28.6 16.0 40.9 45.2 25.6 48.2	71.0 39.3 68.3 76.9 75.9	14.7 7.4 10.1 15.4 13.4 20.7	80.9 91.3 93.4 81.4 87.6 85.6	20 20 20 20 20 20 20 20 20 20 20 20 20 2	31.2 23.8 23.8 18.9 27.6 30.7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	80000111100000000000000000000000000000	13 15 11 15 11 17

	Mumber Who	Answer	111
	٠.	best	4.00 4.00
	Other	yes	5.9
	Non D. E.	best	ด ด ด น <b>่</b> น๋ ผ้
	Non I	yes	28.2 27.9 32.2
ed)	On-the-Job	best	46.7 27.2 38.0
(continued)	On-th	ge s	91.0 87.8 91.0
O)	1	am best	5.5 6.2 6.2
Table 2	DECA	Frogram yes be	66.3 75.2 70.6
	•	sroom best	43.9 61.1 47.1
	다 면	Classroom yes bes	92.9 95.0 93.8
			<ul><li>j. Willingness to take constructive criticism</li><li>k. Appearance</li><li>l. Honesty</li></ul>

#### High School Programs

## Subject Areas for High School Distributive Education Classrooms

Table 3 shows the percentage of high school teacher-coordinators who said that each subject was not a distributive education subject. The subjects are ranked from the lowest percentage to the highest; thus a position at the head of the list with a percentage of 0.0 means complete agreement that the subject should be taught in the distributive education classroom; and a position at the bottom of the list means that a substantial proportion of the high school teacher-coordinators believe that the subject is not suitable for the distributive education classroom.

A question on the "additional training" survey (discussed in detail in the next chapter) provided a check on these scores. The respondent was asked in a screening question to so indicate if a given subject was not a distributive education subject or should not be taught in a distributive education classroom. The second column of Table 3 shows the percentage of respondents who did so.

## Preferred Locations for Teaching High School Subject Areas

Table 4 shows, for each subject, the per cent of the respondents who believe it can best be taught in the places listed. The subjects are listed in order of the percentage agreeing that the distributive education classroom is the best place to teach the subject.

The coordinators believe that most of the subjects should be taught in the distributive education classroom. Also, there is substantial agreement that some subjects should be in the distributive education curriculum, but should not be taught by teacher-coordinators in the distributive education classroom. The list below shows those subjects for which there is over 50 per cent agreement that the subject should be taught outside the distributive education classroom. In addition, the last column shows the per cent who say that subject should be included in the distributive education curriculum.

Item	Per Cent In Non-D.E. Classroom (Ranked)	Per Cent Say In D. E. Curriculum
Punctuation Bookkeeping Penmanship Basic grammar Spelling Letter writing Typewriter	59.1 57.1 56.2 55.0 55.0 51.3 50.2	72.6 71.6 73.7 69.1 78.1 83.2 55.1



Table 3 Subject Ranking According to Whether High School Teacher-Coordinators Believe Subjects Should Be Included in the D. E. Curriculum

Subject	Per Centl	Per Cent <sup>2</sup>
inventory records	0.0	3.5
business etiquette	0.0	7.0
stockkeeping and inventory control	0.0	2.6
credit	0.0	3.5
advertising	0.0	1.8
salesmanship	0.0	1.0
channels of distribution	0.3	3.5
ability to work with others	0.3	6.2
sales promotion	0.3	1.8
ability to deal with superiors	0.3	6.2
making change	0.3	24.6
fashion trends	0.6	3.5
buying	0.6	1.8
use of the telephone	1.0	24.6
business arithmetic	1.0	7.0
business procedures	1.2	8.8
cash register	1.5	26.3
type of business organization	1.5	7.0
role of profit	1.9	<b>7.</b> 9
business locations	2.2	7.9
group discussion	2.3	7.0
ability to get others to work effectively	2.7	5.3
techniques and strategy for setting prices	2.8	13.2
sources of funds for starting and	0.0	11.4
operating a business	2.8	
free enterprise system in general	2.8	12.3
prepared talks	3.0	7.0 7.0
transportation	3.1	7.9 10.5
seasonal fluctuations	3.5	8.8
fair treatment of minorities	3.6	7 <b>.</b> 9
marketing research	4.2	11.4
person-to-person discussion	4.2	9.6
labor-management relations	4.3 4.3	7.0
supervision	4.5 4.6	7.9
internal organization relationships	5.6	21.0
local trade laws	7.0	15.8
federal laws and regulations	8.2	21.1
listening and observing	V• E	<u> </u>

Indicates the per cent of the respondents to the time and place survey who indicated that the item does not belong in a D. E. curriculum at all.

Indicates the per cent of the respondents to the additional training survey who indicated that the item is not a D. E. subject or should not be taught in a D. E. classroom.

Table 3 (continued)

Subject	Per Cent	Per Cent
money and banking unions weighing or measuring devices insurance mental arithmetic capability forecasting economic cycles national income world trade business law basic arithmetic report writing letter writing reading financial statements adding machine spelling penmanship punctuation bookkeeping knowledge of data processing basic grammar reading for comprehension calculator reading fast	8.5 8.9 9.1 9.4 9.8 9.8 11.1 11.2 12.2 15.9 16.8 18.3 21.0 21.9 26.3 27.4 28.6 30.9 31.6 39.5	20.2 14.0 37.7 21.0 30.7 21.0 30.7 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0
	40.5 44.9 46.9 47.8 49.5 52.7 65.4	54.4 60.5 36.0 36.0 52.6 69.3 54.4



Table 4 High School Coordinators' Opinions on Where Distributive Education Subjects Should Be Taught Coordinators responding 334 - less omitted responses shown in Table 1) Table 4

	(Total teacher-coordinators respondi	ng 334	~	shown in Ta	1)
		In a D.E. Classroom	On the Job	In a Non-U.E. Classroom	Other
	Subject	(per cent)	(per cent)	(per cent)	(per cent)
	salesmanship	6.66	47.7	9.9	•
	business etiquette	98.8	•	•	•
	advertising	98.8		•	•
	channels of distribution	9.76	•	9.3	•
	sales promotion	2.79	•	•	•
	ability to deal with people	96.7	۰	•	•
	credit	<b>7.96</b>	38°7	12.4	2.1
	making change	<del>1</del> °96	•	•	•
	business arithmetic	95°8	•	•	•
1	ability to work with others	95.8	•	•	•
24		8. 46	•		•
	stockkeeping and inventory control	ъ <b>.</b> 4	•	•	•
	role of profit	0.46	•	•	•
	ability to get others to work effectively	•	•	•	•
	business locations	93.4	•	11.3	•
	fashion trends	•	•	. •	•
	sources of funds for starting and operating				
	a business	92°1	_	18.0	•
	cash register	92°6	43.3	9.6	•
	fair treatment of minorities	4°26		•	•
	use of the telephone	95.4	•	'n,	•
	transportation	92.2		•	•
	type of business organization	92.0	•	•	•
	inventory records	91.6	•	ထ	•
	free enterprise system in general	91.3	•	23.7	•
	business procedures	91.2	•	ŝ	•
	group discussion	6.06	•	·	•
	marketing research	9.06	17.8	<b>7.°</b> C	2•7
	seasonal fluctuations	90.5	•	14.9	•

Table 4 (continued)

E. Other (per cent)	a a u u u a u u a u u u u u u u u u u u
In a Non-D.E. Classroom (per cent)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
On the Job (per cent)	898 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
In a D.E. Classroom (per cent)	88888867447666666666744 40.000000000000000000000000000000000
Subject	techniques and strategy for setting prices person-to-person discussion supervision prepared talks labor-we nagement relations internal organization relationships local trade laws and regulations money and banking forecasting unions unions listening and observing world trade economic cycles mental arithmetic capability national income weighing or measuring devices basic arithmetic business law reading financial statements letter writing adding machine report writing shookkeeping knowledge of data processing bookkeeping reading for comprehension penmanship

Table 4 (continued)

Other (per cent)	0 1/0 01 F 1/2 W 01 1/2 8
In a Non-D.E. Classroom (per cent)	59.1 28.3 38.0 44.3 50.2 7.0 7.0 7.0 7.0 7.0
On the Job (per cent)	www.vwaw4 a4 on4 a4o4a40
In a D.E. Classroom (per cent)	4 8 2 11 11 11 0 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

punctuation statistics basic grammar calculator cultural development reading fast accounting dictaphone typewriter higher mathematics

Subject

In accord with the same 50 per cent criterion, the following two subjects also should be in the distributive education curriculum, but can be taught either on the job or in the distributive education class-room.

		Per Cent Say In
<u>Item</u>	Per Cent On-the-Job	D. E. Curriculum
Ability to work with others	51.1	99.7
Stockkeeping and inventory control	50 <b>.7</b>	100.0

#### Preferred High School Locations for Developing Personal Characteristics

Table 5 shows, for each personal characteristic, 4 places where it can be developed and the percentage who believe each location is best. The characteristics are listed in the order of the percentage who believe the distributive education classroom is the best place.

Coordinators believe many of these characteristics are not best developed in any classroom; and for only the first 4 characteristics (Appearance, Positive Attitude, Reasoning Logically, and Memory) do at least 50 per cent of the respondents believe the distributive education classroom is best. On the other hand, as the 2 lists below and on page 30 show, a majority of the coordinators believe many of the characteristics are best taught on the job, or in the DECA program.

	Per Cent Best Taught
Characteristic	On the Job
Application to the task	85
Willingness to take orders	83
Showing interest in job	83
Ability to get along with people	81
Safety consciousness	81
Ability to apply knowledge	<u>76</u>
Willingness to do routine work	<b>7</b> 6
Understanding what work means	67
Pride in doing work well	66
willingness to abide by regulations	64
Attention to details	63
Loyalty	62
Ability to take constructive criticism	60 50
Alertness	59 50
willingness to work on own	59 50
Perseverance	58 50
Dependability	58
Ability to talk easily with people	<b>57</b>

1. Percentages for DECA program are taken directly from Table 2, on pp. 16 to 20.

(continued on page 30)



Tatle 5 High School Coordinators' Opinions on Where Personal Characteristics Should Be Taught (Total teacher-coordinators responding 334 - less omitted responses shown in Table 2)

		4	The Mon-Tile	Other
	In a U.E.	סוו פוופ זסא	ז מ	
Personal Characteristics	(per cent)	(per cent)	(per cent)	(per cent)
	۱ د د	0 20	١,٥	2,5
Appearance	_	- C	ار ای	. a.
Positive attitude (optimism)		•	2.00	, r
Reasoning logically	74.0	•	7.61	†
Memory	24.0	- C	- '- '- '- '- '- '- '- '- '- '- '- '- '-	0.6
Knowing one's goal in life	**************************************	ο α ο α	•	1,1
Quickness to grasp meaning	7 ° 0 ° 1	0,0	- V;	7.9
Manners	. t C	7. UC		1.1
Ability to analyze	ر• / <del>۲</del> / ۲ / ۲ / ۲ / ۲ / ۲ / ۲ / ۲ / ۲ / ۲ /	- 000	•	2 9
Honesty	T • U · · ·	0,00	)	1,8
Hand shake	45.2	2000	•	Ì
willingness to take constructive		1,6 7	رم	1,4
criticism	4. 0.0.	- V	ا ر •	t
Smile	40. V. 0.	0 0	) O	. r.
Sincerity	39°L	40°C	) n	0.3
Willingness to do extra assignments	ν. ο α	55. የ	9-2	0
Accuracy	30° F	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	17	2.9
Determination	ر د د د د د د د د د د د د د د د د د د د	י טירות סירות		1.8
Tactfulness	٠ <u>٠</u> هـ	7. 7. 0.	100	3.8
Control of temper	0. 4. (c	0.00 	7.7	<b>↑</b> 0
	34.5	1, OR	4.6	0.0
Ability to take constructive criticism	33.0	7. T. 1.	· ທີ່ ວັດ	ω α
Patience	34.5		) w	3.5
Tolerance	33.2	ָרָ כְּיִלְּיִבְּיִרְיִּבְּיִרְיִּבְּיִרְיִּבְּיִרְיִבְּיִרְּבְּיִרְיִבְּיִרְיִבְּיִרְיִבְּיִרְיִבְּיִרְיִבְּי		, O
Ambition	75.00	1.64 0.00	ן. ק	1,8
Perseverance	31.1	70.0	+ C	0
Understanding what work means	30.0	<u>.</u> გ	• •	ָר. ה
Enthusiasm	•	N U		וין
Thinking quickly	7.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0	63.0	ر در	7.0
Attention to details	•	)	1	

Table 5 (continued)

	In a D.E.	On the	In a Non-D.E.	$\mathfrak{O}_{\mathbf{t}}$ her
Personal Characteristics	Classroom (per cent)	Job (per cent)	Classroom (per cent)	(per cent)
		7 77	4.0	7.34
Willingness to abide by regulations	C. V.	•		
Dependability	•		•	
Congeniality (pleasing personality)	o Co	ئے۔ م	> a	ָּרְ הַל
Friendliness	• .	つってい	•	
Self-confidence	•	05 14		٦, ٦
Alertness	9	1. O.	•	
Initiative	0 ~ CV		•	•
Aggressiveness	•		•	•
Pride in doing work well		0.00	- 6-	ω,
Loyalty	•		•	•
Ability to organize	•	•	•	•
N Ability to talk easily with people	•	•	, O	•
	•	7. V. C.	•	
Willingness to do routine work	•	•	า ๙ -	•
Ability to apply knowledge	Tors	0 0 0 0 0	• •	0
Safety consciousness	•	•	ر ا در	• •
Desire to help others	۰٬۱	N - 00	) (°)	
Showing interest in job	ار د از د	•	0.50 F-0	•
Ability to get along with people	•	•		ο σ τ
Outgoing - sociable	•	•	11.0	•
Willingness to take orders	•	•	•	7
Willingness to assume responsibility	15°5	් ස ස්	<b>7.</b> 0	0.3
Application to the task	• •	32.5	7.4	0.7
TTOM WIOM ON ATTOOM 189				

	Per Cent Best Taught
Characteristic	On the Job
Tactfulness	56
Accuracy	56
Patience	55
Thinking quickly	55
Aggressiveness	54
Control of temper	53
Initiative	51
Tolerance	51
Characteristic	Best Taught in DECA Program
Ability to organize	57
Get people to work well	55
Outgoing - sociable	52

#### Required Hours for High School Subject Areas

Table 6 shows the median number of hours which teacher-coordinators said they would need in order to raise their average students to each of 3 levels of understanding; namely:

- 1. Acquire a general notion of each subject item.
- 2. Talk intelligently about the subject and understand instructions concerning it.
- 3. Apply the subject individually in a given situation.

The subject areas are arranged in the order of the number of hours specified for the category entitled "Talk Intelligently About The Subject and Understand Instructions in It."

#### Time and Place for Most Important High School Subjects

Table 7 includes all those items which employers (speaking of their non-supervisory employees) say are highly important or are only moderately important but seriously lacking in preparation. For all



<sup>1.</sup> Even though businessmen say job knowledge is the most important knowledge and skill category, it is not included in Table 8 because it is so diverse that no attempt was made to measure the classroom hours it requires.

<sup>2.</sup> These items were identified in the businessmen's survey reported in Volume 1, Table 3, pages 25 and 26.

Table 6 Number of Hours High School Coordinators Believe Are Necessary for the Following Levels of Achievement

	General		Apī	ility to Talk	শ		Ability to Apply on Job			Number of
Subject	Notion (Median)	Max.	Min.	(Median)	Max.	Min.		Max。]	M.n.	Respondents ${f l}$
	(	ć	r	ני	8	_	25	66	m	24.1
salesmanship	ນ Q	2 2 0 2	- <b>-</b>	, ,	18	<b>;</b> ~	\ <u>0</u>	66	N	239
	<b>√</b> ſſ	000	ا	i Si	66	CJ	15	66	Q	239
sales promotion	/ ሆ	r 0/	i	10	9	႕	15	20	o ·	56
bookkeeping	╮┍┥	25	-	10	20	႕	0.0	66 1	10	‡ CcC
Cypewiluei Lingtone entthmotto	5	30	٦	6	70	-	15	£ (	⊣ ,	<b>43</b> 0
business arrenmentersion	, <sub>1</sub>	66	-	Φ,	66	<b>,</b>	15	66		ر م در ا
marketing research	5	66	<b>,</b>	ω\	66.	┍┥┍	א כ	y 6		151
group discussion	ω,	40	⊣,	ρV	<del>1</del> 6	-1 -	01.	000	4 <b>-</b> -	160
prepared talks	<b>⇒</b> L	66		oν	7 7 7 7	-d ₁	10	66	i (V	111
basic arithmetic	<b>ر</b> ۱	ر ا ا	-1	) V	9	1 <b>-</b> -1	10	66	٦	211
buying	<b>^</b>	20	4	Ò	)	I		ı		
20	-	0	_	9	04	Н	10	66	-	222
	n t	2 6	- I	) L	25	Н	10	70	႕	73
report writing	O -4	, c	i1	, ι <sub>ν</sub>	66	Н	10	66	Q i	36
		i o	· <b>-</b>	. د	96	႕	_	8	إحتم	133
person-to-person discussion	า (\ <del>เ</del>	8	i	, <sub>C</sub>	66	H	9	66	н	$\circ$
	J (	` `	i r	, L	, T	_	7	75	-	111
	، رى	ט ע	-1 =	√ ւռ	·	1	٠ ي	10	<b>~</b>	5
higher mathematics	Y) (	ر د	- <b>i</b> -	∖ ν	- ر د	٠ م	<b>(</b> )	55	Н	28
,	N	27	4	`	7	J	`			
ability to get others to	(	(	•	L	c	_	α	9	;	194
work effectively	Q ·	g (	-4 n	<b>∩</b> L	y c	٦, ٢	ο α	9 6	سم ا	211
ability to work with others		9	⊣,	<b>∪</b> r	אר כי		) α	8 8	۱ –	202
inventory records	ณ	15	-4 ·	<b>Λ</b> ι		-i -	) C	0	ا	228
credit	۱ (۲۸	ر د و	<b>⊣</b> •	<b>С</b> п	, t		<u>ب</u> د	\$	<b>,</b> –4	118
	o o	2 6	<b>⊣</b> -	<b>∼</b> u	2 7	4 -	) o	8	ı	243
channels of distribution	<b>7</b> ) (1	N S r	-1 <b>-</b> -	√ rc	2	4 (V	⁄∞	66	Q	<b>1</b> 7
accounting	า	`	4				(	q	؟ م كر كر	(\\\\\\\\

This is the number of respondents who indicated the required hours for Column H of Table 1 (Ability to Talk About It). For the other 2 median hours columns, the number may vary slightly.

(continued) Table 6

The second of th

		General		Ab	Ability to Talk About Tt	저		Ability to	0		Number of
	Subject	(Median)	Max.	Min.	w	Max.	Min.	lian	Max.	Min.	a)
	calculator	Q	15	1	5	10		10	04	Q	73
	techniques and strategy f	for						•			•
	setting prices	ณ	50		7	66	7	∞	8	<b>~</b>	180
	free enterprise system in	_						•			
		ณ	30	7	7	45	٦	∞ (	22	-	212
	money and banking	ന	30	-1	7	35	7	∞	66	<b>~</b>	159
	_	m	70	7	2	8	٦,	10	66	_	106
	cultural development	Q	15	7	2	80	<b>ا</b>	10	8	_	77
	type of business organization		20	7	Ŋ	25	٦,	ω	50	-	219
	-		30	_	2	35	_	ω'	20	Н	20g
	letter writing	ณ	15	<b>~</b> 4	‡	80	٦	9 '	30	-	85
3		ณ	15	-1	<b>.</b> ‡.	20	_	9	90	~H	23
2	•	ณ	<b>1</b> 0	7	<b>.</b> † .	80	-	<i>ب</i> ر	30	<b></b> 1 :	<b>2</b> 6
	basic grammar	m	<b>1</b> 0	_	<b>.</b> 1	က် က	-	9	႙.	_	23
		٦	18	٦	<b>1</b>	36	ด	√	, 40	m	15
	fair treatment of minoritie	ຜ	8	-	77	66	-	₽.	40	-	194
	ability to deal with					,			,		`
	superiors	ณ	9	٦,	<b>া</b>	9	, ہے	ריינ	96	<b>,</b>	216
	business etiquette	ณ	66	_	<b>†</b>	66	_	<i>ر</i> ،	<u>بر</u>	Д.	208
	fashion trends	ณ	15	٦	<b>1</b>	50	-	9'	66	_	197
	transportation	ณ	20	-	<b>.</b> †	20	٦,	9	66	-	193
	reading financial statements		30	_	<b>4</b>	40	٦	<u>_</u>	20	-	26
	economic cycles	ณ	25	_	<b>†</b>	710	~1	ייט	කු ,	~	137
	business locations	ณ	30	_	<b>†</b>	70	_	9	8	<b>~</b> -I	2 <b>1</b> 4
	sources of funds	ณ	30	_	†	70	٦,	7	66	7	185
	role of profit	Q	25	-	77	30	~1	√	66	-	20g
			15	-1	†	S S	<b>-</b>	√	, S	<del>, -  </del>	<del></del>
	in arance	ณ	30	7	†	80	٦	<b>-</b>	9	-	152
	federal laws and regulations		25	-1	<b>†</b>	30	<b>~</b>	9	<u>ک</u>	-	167
		<b>(</b> 1)	30	٦,	4.	35	٦,	וטו	4. 0()	r	<b>1</b> 47 σ <b>ι</b>
	internal organization relations2	ations 2	30	-	<b>4</b>	30	7	ላ	ž	<b>-</b>	CoT

Table 6 (continued)

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		General Notion	3	ž	Ability to Talk About It	ج م ک	<b>7</b>	Ability to Apply on Job	S Q	ž Ž	Number of Beanindents
	) and a section of the section of th	(Median)	Max	MI II.	(wearan)	Mar.	_	(wearan)			realization of sales
	supervision	ณ	45	-	4	45	H	ω,	66	-	ਤੋਂ ਹੈ। ਹਵਾਲੇ ਹ
	labor-management relations	Q	40	٦	<b>†</b>	40	-	9	9	٦	186
	use of the telephone	Q	30	-1	m	13	٦	2	<b>5</b> 2	<b>~</b>	171
	making change	ณ	15	-1	m	80	0	5	66	0	2.1.5
	adding machine	e=1	8	٦	m	ဂ္ဂ	-	₹.	30	-	73
	cash register	ณ	30	٦	m	50	٦	9	8	<b>~</b>	197
	weighing or measuring										
	devices	ณ	15	-	m	20	႕	2	66	٦	102
	forecasting	ณ	25	-	ന	35	Н	5	66.	-	132 232
	seasonal fluctuation	ณ	20	-	m	40	႕	5	45	-	1.86
	local trade laws	ณ	35	-	က	80	٦	<i>ن</i> ر	8	٠,	1,44
33	dictaphone	ณ	<b>4</b>	-	ଧ	9	-	<b>.</b>	80	9	ന
3	national income	-	15	٦	ณ	15	-	<b>.</b> ‡	20	-	123

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Table 7 Time and Place for Most Important High School Distributive Education Subjects

(Total teacher-coordinators responding for per cent figures  $33^{4}$  - less omitted responses shown in Table 1)

Teaching Hours to Apply (Median)2	ωννν ω	6 7 10	25	5 15 7 111 brs.
Best Taught in D.E. Classroom (per cent)	95.8 96.7 98.8 93.4	72.5 87.2 92.4 90.9	6*66	96.4 95.8 67.7 Total
Doesn't Belong in D.E. Curriculum (per cent)	0°.0 0°.0 0°.0 0°.0	8 4 H 0 0 0 F	0.0	0°3 9°6
Preparation Rank 1	20 S S S S S S S S S S S S S S S S S S S	21 8 11	56	33.2
Importance Rank 1	18 8 4 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	2 10 20	4	11 21
Item	Human Relations Ability to work with others Ability to deal with superiors Fair treatment of minorities Business etiquette Getting others to work effectively	Communications Instending and observing Person-to-person discussion Use of the telephone Group discussion	Marketing Salesmanship	Mathematics Making change Business arithmetic Mental arithmetic capability

<sup>1.</sup> From Volume I, Table 3, pg. 25, columns 2 and 6, respectively. 2. From Volume II, Table 1, column I, page 11.

of these entries, there is substantial agreement among teachercoordinators that the items can best be taught in a high school
distributive education classroom. Because of the importance of the
items, the list gives median judgment of classroom hours required to
teach the average distributive education student to apply the item
independently in a work situation. This arrangement permits the
reader to relate at a glance importance and preparation to classroom
hours. The total of the right-hand column shows that the median
total distributive education classroom time which teacher-coordinators
believe is necessary to teach the average student to apply these
items independently in a work situation is lll hours.

# Place for Most Important Personal Characteristics for High School

Table 8 shows those personal characteristics which employers (speaking of their non-supervisory employees) say are most important or moderately important and seriously lacking in preparation. There is nothing even approaching unanimous agreement on where these should be taught or developed, although for most of them a majority favors On the Job. For only one (Appearance) does 50 per cent or more favor the distributive education classroom.

## Conclusions for High Schools

The findings of this study indicate that coordinators believe most of the subjects on our list belong in the distributive education curriculum, but that some of them should not be taught in the distributive education classroom. This means that, for some subjects, teachers with special competence in the particular subject (English, math, etc.) should be called upon to either certify as to the distributive education students' competence or conduct special classes for them.

Further, the study suggests that although there is no majority agreement on where most personal characteristics are <u>best</u> developed, teacher-coordinators do agree that many personal characteristics should be developed on the job. The formal mechanism for accomplishing this needs investigation. It may be that a syllabus could be developed for employers participating in cooperative student employment programs, or it may be that the student should have the syllabus. Whatever the case may be, if such a formal mechanism is not feasible, the development of personal characteristics can still receive attention in the curriculum because the study demonstrates that teacher-coordinators have a strong belief that most of the characteristics can be developed, if necessary, in the distributive education classroom.

The tables on needed classroom hours show that to raise all students to the highest level in every subject would require far more hours than are available. However, a study of these tables suggests that by recognizing some subjects as more important than others, and by judiciously selecting the level of knowledge or skill for each, it is possible to design an effective distributive education program within the time limits available to most planners of high school programs.



for High School Distributive Education Programs (Total teacher-coordinators responding for per cent figures  $33^4$  - less omitted responses shown in Table 2) Place for Most Important Personal Characteristics Table 8

Item	Importance Rank1	Preparation Rankl	Best Taught in D.E. Classroom (%)	Best Taught On the Job (%)
Honesty Dependability	1 2	T 4	74 29	38 58
Willingness to assume responsibility Loyalty	16 3	21 6	13 23	70 70
Willingness to abide by regulations	. <del></del> u	7 يا	30	37
Fride in doing work well Initiative	∩ <b>t</b> ~'	, 8, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	565	55 17,
Attention to details Appearance	19	22 19	30 61	23 24
	12 13	25 25	30 35	26.89
86				

1. From Volume I, Table 6, page 31, columns 1 and 5, respectively.

## Community College Programs

Tables 9 and 10, beginning on the next page, are the general tables for this section.

# Subject Areas for Community College Distributive Education Classrooms

Table 11 shows the percentage of community college teachercoordinators who said that each subject was not a distributive education
subject. The subjects are ranked from the lowest percentage to the
highest; thus a position at the head of the list with a percentage of
0.0 means complete agreement that the subject should be taught in the
distributive education classroom; a position at the bottom of the list
means that a substantial proportion of the community college teachercoordinators believe that the subject is not suitable for the distributive education classroom.

A question on the "Additional Training" survey (discussed in detail in the next chapter) provided a check on these scores. Each respondent was asked in a screening question to so indicate if a given subject was not a distributive education subject or should not be taught in a distributive education classroom. The second column in Table 11 gives that percentage of respondents who did so. Thus 0.3 as a per cent for "Ability to Work with Others" means 97.7 per cent thought it was a distributive education subject or should be taught in a distributive education classroom.

# Preferred Locations for Teaching Community College Subject Areas

Table 12 shows, for each subject, the per cent of the respondents who believe it can best be taught in the places listed. The subjects are listed in order of the percentage agreeing that the distributive education classroom is the best place to teach the subject. A majority of coordinators agree that about 60 per cent of the subjects should be taught in the distributive education classroom. Also, there is substantial agreement that some subjects should be in the distributive education curriculum, but should not be taught by teacher-coordinators in the distributive education classroom. The list on page 53 shows those subjects for which there is over 50 per cent agreement that the subject should be taught outside the distributive education classroom. In addition, the last column shows the per cent who say that subject should be included in the distributive education curriculum.



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Table 9 Time and Place for Specific Areas of Knowledge and Skills in Community College Distributive Education Programs (Total teacher-coordinators responding 108 - best places may not total 100% because of rounding)

item; next 3 columns show average (median) of teacher judgments on hours to each level for each knowledge/skill item. Final column indicates number of teachers who did not respond to the item. The first 6 columns show per cent of teachers who thought the statement in column heading applied to each

م	Number of outted responses	(freq.)	٥٢	12;	11	ळ ध	13	ω	တ ပူ တ
н	Ability to apply on	(hrs)	25	101	20	10	10	9	20 11 4
Ħ	Ability to talk about it	(hrs)	10	noo	20	910	2	<i>=</i> 3	15 10 3
ರ	Gen- eral notion	(hrs)	ထေး	クサ	0 rV	۳.4 ۲.3	г 1	α	∞ r∨ 01
SE4	I have never taught it	(%)	16.7	13.5	w. w.	14.0	15.5	19.0	5.0 22.2 5.0
ជ	Other	(%)	1.0	0.0	1.0	3.1	0.1	1.0	6.4 0.4 0.0
А	In non- D.E. class	(%)	61.8	58.3 58.3	50.5 55.7	35.0 39.6	33.0 61.2	37.0	55.0 52.1 12.7
ຍ	On the job	(%)	٥ د د	4-4 دوس	 	3.0	11,3	20.0	1.0
ф	In D.E. class	(%)	25.5	30.2 13.3	15.5	73.0	70.1	51.0	3.1 72.5
Ą	Doesn't belong in D.E. curric-	nlum (%)	16.7	15.6 29.6	37.1 33.0	5.0	5.2 32.7	16.0	34.0 38.5 11.8
			Communications a. Writing l. Letter writing		4. Penmanship	<ul><li>b. Oral presentation</li><li>1. Group discussion.</li><li>2. Prepared talks</li></ul>	3. Person-to-person discussion		1. Reading for comprehension 2. Reading fast

38

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		בי	Table 9	(cont	(continued)					
	A (%)	9 <del>(8</del>	υ <b>%</b>	₽ <b>%</b>	(%)	(% (%)	G (hrs)	H (hrs)	I (hrs)	J (freq)
Mathematics										
a. Basic arithmetic (addition, sub- traction, division,	o	, (	α	بر ج	<b>C</b>	2	5	10	14	ľ
multiplication)b. Business arithmetic	N. 0 N	30.1	0	t• CC	) •	•	`			
	1.9	85.6	20.2	21.2	1.0	16.3	7	10	15	<b>t</b>
•-•	27.8	36.1	14°41	35.1	9 W	14.4	ณ ณ	<b>⊅</b> €	<b>0</b> 4	ដ"
e. Higher mathematics f. Statistics	\$0.0 \$0.0 \$0.0	23.0°	1.0	39.0 36.3	6.4 0.0	0 & . 0 & .	νv	15	15	ω νο
Human Relations										
a. Ability to get others to work effectively	1.9	87.5	ħ.O.4	22.1	1.9	12.5	7	∞	10	#
	0.0	92.3	45.2	18.3	1.9	17.3	Ŋ	9	10	<b>4</b>
minorities (customers and employees)	Ļ. 4	80.6	38.8	21.4	1.9	16.5	κ	9	12	ľ
d. Ability to deal with superiors	0.0	91.3 93.3	40.8 36.2	17.5	1.9	16.5	νm	910	108	ſΛM

39

			Ţ	Table 9	(continned)	(pənu					
		(%)	(%)	∪ <del>§</del>	(%)	H (%	(%)	G (hrs)	H (hrs)	I (hrs)	J (freq.
ΣI	Marketing										
α 4	a. Salesmanship	0.0	95.2	40.0	# 6 8	1.0	12.4 16.7	9 3 8	15	30 25	୧୬
ייטנ		0.0	0.86	27.5			12.7	9	15	30	S
<b>.</b>		6.0	96.1	35.0	2.9	1.9	17.5	7	10	50	m
w ·	e. Inventory records	000	86.7 88.7	38.1	000	0,0	21.9	mm	<b>₩</b>	10	€
<b>+</b> 4 €		, 0 , 0	88°5	37°5	, w , w	0	20.2	JΓ	10	20,	ดา
بدر رو	h. Transportation	8.0	81.0	25.7	12.4	0.0	26.7	Q	2	10	นา
40	1. Stockkeeping and	0.0	4°18	42.7	7.6	0.0	21.4	m	5	15	<b>⊅</b> -
	•	0.0	89.4 46.5	32.7 6.9	9.6	0°0 0.0	16.3 21.8	w 00	64	15 8	# <b>C</b>
<b>≈</b> 1°7	1. Channels of distribution	6.0	93.3	7,41	8.7	0.0	11.5	m	ω	15	4
p== 1	Financial Records										
w	a. Bookkeeping	20.4	30.1	11.7	· · · · · · · · · · · · · · · · · · ·	6°0	7.6	10	8	56	5
_		15.5	12.7	11.7	51.5	2.9	7.6	2	ω	10	5
=	c. Accounting (more than bookkeeping and reading financial statements)	0. 42	17.3	4.8	58.7	1.9	6.7	30	36	8	4

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Table 9
ţ
•

			Table 9	(cont	(continued)					
	A &	(%)	၁ <del>(</del> %	(%)	(% (%	F)	G (hrs)	H (hrs)	I (hrs)	J (freq.
Machines of Business										
_	31.1	12. 6 7.8	0.4 0.0,	۹. •	2.9 9.9	7.66	900	36	ひたい	1001
-	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	25.2 38.1	13.6	ر 14 13 10 10 10	000	13.3	a a a	rv rv «	איי איז כמ	๛๛
f. Weighing or measuring devices	12.6	7. 7.	37.0	• •	1.9	24.3	) ન	n a	\	· 10
Economics										
- '	7.8	65.0	20.4	36.9	0.0	19.4	ĸ	2	10	7
b. Free enterprise system in general	5.8	60.2	3.9	12.7	1.9	15.5	mm	יטיט	8 01	м
	16.5	0. 4°	, m, i	53.4	, o, c		) (A) (	ν <b>ι</b> ν ~	σα	ייט ח
e. Business Locations f. Forecasting		63.4	17.8	31.7			u m	<b>t</b>	o 0	\ <u>}</u>
		0° 7L	21.0	23.0			ณ	<b>4</b>	<b>℃</b>	∞
~ W	10.7	£1.7	<b>7.6</b>	50.5	2.9	14.6	ณ	9	ω	ī
		72.8	7.6	32.0	٦°٢	17.5	۵	2	σ,	5
j. Role of profit		74.5	17.6	34.3	6.0	15.7	ત	9	10	9

*	(3)
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	CIVIC
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			Table	100) 6	(continued)					
	(%)	B (%)	υ <b>%</b>	(%)	ы <del>(ў.</del>	₩ <b>%</b>	G (hrs)	H (hrs)	I (hrs)	J (freq.)
Other Knowledge										
	16.3	28.8	2.0	55.8 55.8	•	17.3	<i>O</i> I <i>O</i> I	ব ব	80	<i>ব</i> ব
b. Insurance	4.0	66.0 43.3	22.6	19.8	140 000	21.7	100	10	82 F	าดเพ
• • • • •	11.7	54°4 59°2	13.6 13.6	39.9 38.8	0.0	13.6	നവ	94	10	'nν
g. Cultural development (appreciation of Literature, art, and No music)	ट° १११	8* 11	5.9	1.84	5.8	8* 4	႕	н	н	4
Business Organization, Procedure and Management										
a. Type of business organization b. Pusiness procedures	3°8	78.3	8.5	79.7	0.0	10.4	m	Ŋ	10	α.
_	6.0	88.5	33.7	η• ητ	0.0	18.3	m	9	10	ო
	8°54	79.8 85.8	22.1	22°.1 21.7	0.0	14.4	w 2	10	8 15	<b>⊅</b> (V
e. Labor-management relationships	8°6	9*89	21.9	29.5	2,9	11.4	٣	ω	12	m

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(Total teacher-coordinators responding 108 - best places may not total 100% because of rounding) Table 10 Places in Community College D. E. Programs, Including Best Places, Where Personal Characteristics Can Be Taught or Developed Table 10

The "yes" column indicates the per cent of the respondents who thought the personal characteristic could be taught or developed in that location; the "best" column indicates the per cent who tought that would be the best place to teach or develop it.

	D. E.	• E	DECA	- ! - !	On-th	On-the-Job	Non D. E.	· 田 · ·	Other	ង	Number Who
Personal Characteristics	yes bes	room	Frogram yes b	best	yes	best	yes	best	yes	best	Answer
Motivation or Caring About Job											
a. Knowing one's goal in life	9• #8	43.8	66.3	0.6	73.1	27.0	50.0	4.9	23.1	12.4	ঝ
b. Willingness to do routine work	76.2	20.8	53.3	5.2	85.7	8.89	34.3	2.1	8.6	3.1	٣
c. Willingness to do extra assignments	83.5	36.2	0.79	23.4	76.7	35°1	35.9	<del>ر</del> %	<b>6.</b> 8	3°5	5
d. Pride in doing work well	4.06	Ĭ• #Z	71.2	15.1	4.06	55.9	39.4	0.0	9.0	# m	<b>≠ પ</b>
e. Enthusiasm	86.3	33.0	76.5 61.4	22.7	80°2	# 0 0 0 0	29.7	٠ ٢ ٢ ٢	-0	- ω ( 1 ω (	) <b>(-</b> 1
	79.6	35.6	6.69	13.8	85.4	40.0	39°8	1 1 1	9.00 0.00	ه م م	Λ <i>►</i>
h. Determination	80°2 81.6	38.3 26.5	65.4 .1.	12.3 9.6	85°.1	55.4	38°8 38°8	3.0	70	, ω , ω	- <sub>1</sub> 0
Mental Ability											,
a. Reasoning logically b. Imagination	88 83.2	60°0 37°6	40°2 66•7	33.3	70.6 75.5	11.1	57.8 38.2	23.3	4°5 8°2	9 9 9	७७
c. Quickness to grasp meaning	87.1	57.3	47.5	2.0	75.2	23.6	46.5	14.6	5.9	2.2	7

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Table 10 (continued)

Number Who Did Not Answer	<b>6</b> 7977	<b>~~</b> 6	9 -	9 1-
r best	ี พ ๗ ๗ ๗ นำ ั๋น้ำ นำ ั๋น้ำ	4. 6.4 7.0 7.0	3.5.4 5.4	6.7
Other	004 004 004 00	6.9	6.9	8 8 6
). E. sroom best	w	<b>4</b> , 4, 5, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	د. د. ه	7. 4. 5.
Non D. E. Classroom yes bes	30.7 42.6 37.4 43.6 50.0	39.6 33.7 32.3	31.4 34.7	33.3 30.7
On-the-Job es best	76.6 30.6 39.5 18.3	42.2 38.9 45.5	77.9	38.2 32.6
On-th	89 885.9 83.8 75.5	988 949 6	91.2	79. <sup>1</sup> ;
A gram best	0 4 M 4 D 6 C 7 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	11.1	5.3	22.5 42.7
DECA Program yes be	59°4 46°5 46°5 44°5	64,4 76.2 63.6	67.6	75.5 80.2
D. E. Classroom es best	16.0 50.9 40.0 54.3	37.8 28.9 33.0	21.6	27.0
D. E. Classro yes b	76.2 92.9 92.9 1.88 1.89.2	91.1 79.2 82.8	79.4 82.2	80.4 72.3
	<ul><li>d. Ability to apply knowledge</li><li>e. Ability to analyze.</li><li>f. Alertness</li><li>g. Thinking quickly</li><li>h. Memory</li></ul>	Human Relations  a. Ability to take constructive criticism  b. Friendliness  c. Tactfulness  d. Ability to get along with people	<pre>(deal with people,</pre>	

Table 10 (continued)

DECA On-the-Job Non D. E. Other Number Who Program es best yes best yes best Answer		4.2 92.3 62.1 31.7 0.0 8.7 4.2 8.4 89.3 66.3 26.2 2.1 7.8 5.3	3.3 91.9 56.7 35.6 3.3 7.9 3.3	9.6 91.2 54.3 32.4 0.0 5.9 3.2 0.0 90.3 45.7 46.7 4.3 6.8 3.2	3.2 94.2 73.7 35.9 0.0 9.7 5.3			38.5 85.0 42.7 29.9 1.0 7.5 3.1	43.8 83.0 41.7 27.4 0.0 5.7 3.1	36.2 84.8 41.5
Non D Clas <b>s</b> yes		31.7 26.2	35.6	32°4 46.7	35.9			89.9	27.4	30.5
Job best		62.1 66.3	56.7	54.3 45.7	73.7			42.7	<b>1</b> °1γ	41.5
On-the yes		92.3 89.3	91.9	91.2 90.3	2.46			85.0	83.0	848
A ram best		7°8	3,3	9.0	3.2			38.5	43.8	36.2
DECA Progra yes b		56.7 63.1	53.5	68.6 46.6	7* 75			<b>7.</b> 08	4.77	78.1
E. room best		29.5 17.9	33.3	33.0 46.8	17.9			14.6	11.5	11.7
D. E. Classroom yes bes		86.5 71.8	82.2	83.3	4.98			74.8	67.0	<b>7</b> 9
	Work Habits and Work Behavior	Willingness to abide by regulations	Attention to details	Willingness to work on own	Willingness to take orders	Leadership	Willingness to	bility	Get people to	Desire to help others

Table 10 (continued)

	D. E. Classroom yes bes	E. Sroom best	DECA Program yes bes	A ram best	On-th	On-the-Job es best	Non D. E. Classroom yes bes	room best	Other yes l	best	Number Who Did Not Answer
Attitude Toward Job											
	81.3	28.9	7.74	0.0	7.06	0.89	17.8	1.0	4.8	2.1	г
	9•92	10.2	9*84	3.1	92.5	7.48	18.7	1.0	5.6	1.0	н
c. Application to the task	78.1	15.1	56.2	3.8	90.5	78.5	21.0	1.1	4.8	2.5	က
Temperament											
a. Patience	77.1 72.1 78.1	30.1 28.6 23.7	61.9 61.5 68.6	10.8 8.8 12.9	87.6 86.5 85.7	49.5 50.5 51.6	33.3 31.7 36.2	64 6 64 6	12.5	6.5 8.6	w 4 5
Other Individual Personality & Behavioral Characteristics											
a. Positive attitude (optimism) b. Dependability c. Safety consciousness d. Smile e. Hand shake f. Self-confidence g. Sincerity h. Initiative	87.4 88.3 88.2 88.2 88.3 89.4 89.4	53.3 14.9 35.2 41.9 87.2 38.6 43.0	6834 44 687 687 687 687 687 687 687 687 687 687	15.6 10.0 4.3 7.7 23.9 15.9	77 886.57 788 88.50 78.00 78.00 78.00 78.00 78.00	20.0 51.1 72.3 42.9 34.1 20.4	35.9 33.7 33.7 33.3 36.3	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.01 0.01 0.01 0.01 0.01 0.01	8.7.7.4.7.7.6. 9.8.4.4.7.7.8.	24674766

Table 10 (continued)

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Number Who	Answer	102
ħ.	best	4.1
Other	yes	9.7 12.6 16.5
<b>运</b>	best	4 4 50
Ion D	yes best	33.0 30.1 35.9
qof-	best	42.3 28.3 32.6
On-the-Job	yes	82.5 84.5 83.5
	ram best	11.3 6.5 4.5
DECA	Program yes bes	65.0 71.8 67.0
<u>ъ</u>	<b>Classroom</b> res best	40.2 53.3 46.1
D. B.	Class	86.4 91.3 85.4
		<ul><li>j. Willingness to take constructive criticism</li><li>k. Appearance</li><li>1. Honesty</li></ul>

Table 11 Subject Ranking According to Whether Community College Teacher-Coordinators Believe Subjects Should Be Included in the D. E. Curriculum

Subject	Per Cent1	Per Cent <sup>2</sup>
ability to work with others	0.0	0.3
ability to deal with superiors	0.0	1.0
salesmanship	0.0	0.6
advertising	0.0	1.0
inventory records	0.0	4.5
stockkeeping and inventory control	0.0	1.0
business procedures	0.9	2.5
sales promotion	0.9	0.6
credit	0.9	0.6
channels of distribution	0.9	1.0
business etiquette	1.0	1.0
supervision	1.9	7.0
business arithmetic	1.9	1.0
ability to get others to work effectively	1.9	4.8
fashion trends	2.9	5.1
buying	2.9	2.2
transportation	2,9	7.0
cash register	3.8	3.5
type of business organization	3.8	2.9
internal organization relations	<b>3.</b> 8	7.0
fair treatment of minorities	4.7	3.5
business locations	4.9	3.5
group discussion	5.0	4.1
person-to-person discussion	5.2	8.0
free enterprise system	5.8	3.2
role of profit	5.9	1.9
seasonal fluctuations	6.0	6.4
business law	6.6	15.6
sources of funds for starting and	4.0	١ -
operating a business	6.8	4.1
making change	6.9	1.6
prepared talks	7.3	4.5
techniques and strategy for setting prices	7.8	6.4
marketing research	7.8	8.3
labor-management relations	8.6	6.7
local trade laws	9.4	8.9
unions	9.7	10.8
money and banking	10.7	9.5
federal laws and regulations	11.7	8.3

<sup>1</sup> Indicates the per cent of the respondents to the time and place survey who indicated that the item does not belong in a D. E. curriculum at all.

<sup>&</sup>lt;sup>2</sup>Indicates the per cent of the respondents to the additional training survey who indicated that the item is not a D. E. subject or should not be taught in a D. E. classroom.

Table 11 (continued)

Subject	Per Cent	Per Cent
use of the telephone	11.8	4.8
forecasting	11.9	14.0
insurance	12.5	14.3
weighing or measuring levices	12.6	20.1
adding machine	14.3	<b>37.</b> 9
reading financial statements	15.5	<b>30.</b> 6
report writing	15.6	24.2
national income	15.7	15.3
listening and observing	16.0	13.7
knowledge of data processing	16.3	42.4
economic cycles	16.5	13.7
letter writing	16.7	26.1
bookkeeping	20.4	43.3
calculator	21.4	62.4
world trade	21.8	17.8
accounting	24.0	63.1
mental arithmetic capability	<b>27.</b> 8	15.3
basic arithmetic	28.2	14.6
spelling	29.6	34.1
typewriter	31.1	74.2
basic grammar	32.7	39.5
punctuation	33.0	40.4
reading for comprehension	34.0	43.0
penmanship	37.1	41.4
reading fast	38.5	55.1
statistics	40.2	49.0
cultural development	44.2	59.2
dictaphone	45.1	74.8
higher mathematics	52.0	63.4

Table 12 Community College Coordinators' Opinion on Where Distributive Education Subjects Should be Taught (Lotal teacher-coordinators responding 108 - less omitted responses shown in Table 9)

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	रेका संह	In a D.E.	On the	In a Non-D.E.	Other
		(Per Cent)	(Per Cent)	(Per Cent)	(Per Cent)
	3 dvertising	98.0	27.5	•	•
	sales promotion	96.1		2.9	1.9
	salesmanship	95.2	0.04	•	•
	channels of distribution	93.3	7,41	8.7	•
	business etiquette	93.3	_	•	•
	ability to work with others	92.3	45.2	18.3	•
	ability to deal with superiors	91.3	40.8	17.5	1.9
	credit	4.68	32.7	•	٠ <b>.</b>
	fashion trends	9 <b>°</b> 88	•		٠ <b>.</b>
5	business procedures	88.5	33.7	7, 41	0.0
0		88.5	•		•
	ability to get others to work effectively	87.5			1.9
	inventory control	87.4	•	•	•
	inventory records	86.7	38.1	•	o.
	supervision	85.8	•	21.7	•
	business arithmetic	85,6	•	•	•
	marketing research	8 <b>1.</b> 4	13.7	•	0.0
	transportation	81.0	•	•	•
	fair treatment of minorities	9 <b>°</b> 08	•	21.	•
	business locations	9 <b>°</b> 0	•	19.1	•
	internal organization	79.8	•	•	•
	type of business organization	78.3	•	•	
	making change	•	•	•	3.9
	role of profit	•	17.6	34.3	ο.
	seasonal fluctuations	•	21.0	•	•
	group discussion	73.0	3.0	35.0	0° t
	source of funds	•	7.6	32.0	7.7
	use of the telephone	72.5	19.6	12.7	0.0

# Table 12 (continued)

	In a D.E.	On the	In a Non-D.E.	Other
on of the contract of the cont	(Per Cent)	(Per Cent)	(Per Cent)	(Per Cent)
cash register	70.2	7.94	11.5	6.
person to person discussion	70.1	•	•	
labor management relations	9.89	21.9	29.5	2.0
prepared talks	2.99	•	•	
local trade laws	0.99	•	•	1.9
techniques and strategy for setting prices	56.0	•	36.9	0,6
forecasting	63.4	T. 0	)	V.
free enterprise system	2°09	•	, N. c.	- - -
nnfons	2°-67	13.0	•	•
federal laws and regulations	<b>5.</b>	•	•	, ,
weighing or measuring	<b>₹.</b>	•	•	
listening and observing	51.0	•	بار 0 د	) C
insurance 5	47.1	9.0		-i c
world trade	46.5	6.0		ກ
business law	43.3	5.7		•
reading financial statements	42.7	11.7		יי כ פיי
money and banking	4 <b>1.</b> 7	7.6		, o
adding machine	38.1	•		•
national income	36.3	o		ν, α γ, α
mental arithmetic	36.1	•		•
economic cycles	0.4%	, a		V
report writing	30.2	ر د ا	7°00	7
bookkeeping	30.1	).•1T	4.40 ()	•
basic arithmetic	30°1	ည္ (	1. m	•
knowledge of data processing	•	<b>L•</b> C	۵ <b>۰</b> ۲۲	, ה עי
letter writing	ひ・ひり	•		•
calculator	٠, د	13.0	74.5 5.35	<u>۔</u> پ د
statistics	23.5	<b>)</b> α	20°5	•
accounting	•	•	50.5	0,1
dTususuud	· · · · · · · · · · · · · · · · · · ·	i •		



Table 12 (continued)

Other (Per Cent)	1 0 1 m 1 1 m 2 4 0 0 0 0 0 0 0 0 0 0
In a Non-D.E. Classroom (Per Cent)	58 515 613 50 50 50 50 50 50 50 50 50 50 50 50 50
On the Job (Per Cent)	4 0 0 1 4 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1
In a D.E. Classroom (Per Cent)	8400 F F 94 8

typewriter
punctuation
reading for comprehension
dictaphone
basic grammar
higher mathematics
cultural development
reading fast

spelling

Subject

	Per Cent In Non-D.E.  Classroom (Ranked)	Per Cent Say In D. E. Curriculum
Item	Classroom (vanged)	D. D. MILLE
Letter writing	61.8	83.3
	61.2	67.3
Basic grammar	58 <b>.</b> 7	76.0
Accounting	58.3	84.4
Report writing	58 <b>.</b> 2	70.4
Spelling		93.4
Business law	56.6	83 <b>.</b> 7
Knowledge of data processing	<b>55.</b> 8	
Punctuation	<b>55•7</b>	67.0
Reading for comprehension	55 <b>.</b> 0	66.0
Bookkeeping	54 <b>.</b> 4	79.6
Basic arithmetic	53.4	71.8
	53.4	83.5
Economic cycles	52.9	84.3
National income	52.1	61.5
Reading fast		68.9
Typewriter	51.5	78.6
Calculator	51.5	84.5
Reading financial statements	51.5	- <del>-</del>
Money and banking	50.5	89.3
Penmanship	50.5	62.9

# Preferred Community College Locations for Developing Personal Characteristics

Table 13 shows, for each personal characteristic, 4 places where it can be developed and the percentage of community college teacher-coordinators who believe each location is best. The subjects are listed in the order of the percentage who believe the distributive education classroom is the best place.

The table shows that coordinators believe most of these characteristics are not best developed in any classroom, and for only the first 61 do at least 50 per cent agree that the distributive education classroom is best. As the list on page 56 shows, a majority of the coordinators believe 19 of the 52 characteristics are best taught or developed on the job.



<sup>1.</sup> These 6 are Reasoning Logically, Quickness to Grasp Meaning, Memory, Positive Attitude (Optimism), Appearance, and Ability to Analyze.

Table 13 Community College Coordinators' Opinions on Where Personal Characteristics Should Be Taught (Total teacher-coordinators responding 108 - less omitted responses shown in Table 10)

	Torat reacher. #coording of the coordinate of th	uning Too - Tess	omitted responses	snown in Table	(or
		In a D.E.	On the	In a Non-D.E.	Other
	Personal	Classroom	0	Classroom	
	Characteristics	(per cent)	(per cent)	(ber cent)	(per cent)
	Reasoning logically	0.09	בים	_	•
	Quickness to grasp meaning	57.3	23.6	_	•
		o. 去	18.3	_	•
	Positive attitude (optimism)	53.3	20•0	ดู	8°0
	Appearance	53.3	28•3	_	•
	Ability to analyze	52.9	30.6	-	•
	Accuracy	46.8	4.5.7	_	•
	Honesty	1.94	32.6	•	•
	<b>0</b> 0	45.3	39.5	•	•
	Knowing one's goal in life	43.8	27.0	•	15.4
5	Manners	•	20°4	•	•
4	Hank shake	•	36.6	•	•
	Willingness to take constructive criticism	•	42.3	•	
	Alertness	40°2	50.0	3.7	7°C
	Sincerity		34.1	•	2.7
	Determination		40.7	•	
	Ability to take constructive criticism		42.2	•	
	Imagination		27.1	3.5	<b>5.</b> 9
	Willingness to do extra assignments		35.1	•	ი, რ'
	Ambition		40.2	•	<b>6.</b> 9
	Smile		42.9	•	7.7
	Initiative	•	42.0	•	5.7
	Attention to details	33.3	26.7	ლ <b>.</b> ლ	ຕຸ
	Aggressiveness	•	0,24	3	<b>Α.</b>
	Tactfulness	33.0	45.5	•	4.5
	Willingness to work on own	33.0	η. 1.	•	വ <u>.</u> സ
	Ability to organize	32•7	<b>→</b> 000	1.0	ri. M
	Enthusiasm	31.8	6.04	r: (	w, ≄, ı
	Patience	30.1	49.5	ญ	ر•0

Personal Characteristics	In a D.E. Classroom (per cent)	On the Job (per cent)	In a Non-D.E. Classroom (per cent)	Other (per cent)
Willingness to abide by regulations Friendliness Understanding what work means Dependability Control of temper Self-confidence Congeniality (pleasing personality) Perseverance Pride in doing work well Tolerance Ability to talk easily with people Willingness to do routine work Loyalty Willingness to take orders Ability to apply knowledge Ability to apply knowledge Application to the task Safety consciousness Willingness to assume responsibility Outgoing - sociable Desire to help others	8888822844454445444544454445444544454445	9889 4088 824 488 86 67 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		400 FF F F F & M F A M F A M M M A M M A M A M M A M M A M M A M M A M
Ability to get along with people Get people to work well Showing interest in job	11.5	41.7 84.7	1000	N.H.O.

55

#### Per Cent Best Taught On Job Characteristics 84.7 Showing interest in job 78.5 Application to the task 77.9 Ability to get along with people 76.6 Ability to apply knowledge 73.7 Willingness to take orders 72.3 Safety consciousness 68.8 Willingness to do routine work 68.0 Understanding what work means 66.3 62.1 Willingness to abide by regulations 56.7 Attention to details 55.9 Pride in doing work well 55.4 Perseverance 54.3 Willingness to work on own 52.3 Ability to talk easily with people 51.6 Tolerance 51.1 Dependability 50.5 Control of temper 50.0 Alertness

## Required Hours for Community College Subject Areas

Table 14 shows the median number of hours which teacher-coordinators said they would need in order to raise their average students to each of 3 levels of understanding, namely:

- 1. Acquire a general notion of each subject item.
- 2. Talk intelligently about the subject and understand instructions concerning it.
- 3. Apply the subject individually in a given situation.

The subject areas are arranged in the order of the number of hours specified for the category, entitled "Talk Intelligently About the Subject and Understand Instructions in It."

# Time and Place to Teach Most Important Community College Subjects

Table 15 includes all those items which employers (speaking of supervisory employees) say are either highly or moderately important but seriously lacking in preparation. Most items reflect substantial



<sup>1.</sup> Even though businessmen say job knowledge is the most important knowledge skill category, it is not included; it is so diverse that no attempt was made to measure classroom hours required.

<sup>2.</sup> These items were identified in the "Business Survey" reported in Volume I, Table 3, page 25.

Table 14 Number of Hours Community College Coordinators Believe Are Necessary for the Following Levels of Achievement

	General		AF	4	1k		-	- <del>-</del>		Muher Of
Subject	Motion (Median)	Max.	Min.	About It (Median)	Max.	Mn.	Median)	Max.	M.n.	Respondents
tuneuriter	9	8	Q	36	66	<b>4</b>	75		9	_
Seconding	30	8	m	36	8	9	8		10	11
bookkeeping	10	8	·	20	8	ณ	56		က	17
advertising	9	8	H	15	8	ณ	30		ന	27
salesmanship	10	8	H	15	8	ผ	တ္တ		m <sub>.</sub>	56
higher mathematics	₹	50	2	15	ဓ္က	15	07		7 <sup>†</sup> 0	໙.
reading for comprehension	Φ	20	2	15	52	90	50	20	ଥ	7 ,
buying	Ŋ	弘	<b>~</b>	૦	8	-	50		m	45
sales promotion	2	<del>1</del> 5.	<b>~</b>	9	₹.	ณ	80		m	55
marketing research	(C)	ဓ္ဌ	<b>~</b>	10	07	r-i	25		<b>,</b> i	42 0
letter writing	Φ	8	ന	10	2	Ŋ	25		2	<b>o</b> ;
business arithmetic	Ŋ	30	mł	10	04	H	15		ุด	, , ,
business law	9	တ္တ	ณ	10	20	ന	56		9	23
supervision	ſΛ	45	<b>~</b>	10	8	ณ	15		ณ	20
statistics	7	15	<b>~</b>	01	ဓ္က	H	15		<b>,</b>	II.
basic arithmetic	ī	20	<b>~</b>	10	ဓ္က	H	<b>†</b> 1		<b>O</b>	<b>1</b> %
punctuation	ľΛ	80	<b>-</b>	10	30	ત	ಜ		m	<b>⇒</b> (
reading fast	72	2	2	9	ဇ္	10	<b>1</b>		15	o į
credit	S	ž,	-	6	ij	<b>-</b> -i	15		-	71
ability to get others to		•		,	•				ı	(
work effectively	2	45	<b>~</b> i	<b>ထ</b>	8	<b>~</b>	01	8	<b></b> 1 (	ر ا ا
channels of distribution	က	20	<b>,</b> i	ထ	50	<b>~</b> 1	15	₺	<b>-</b>	5.
labor management relations	က	22	<b>~</b> 4	ω	20	H	12	8	<b></b> i (	C C
reading financial statements		15	<b>-</b> -i	<b>©</b>	30	Q	01	8	<b>Q</b> (	∞ <b>∾</b>
penmanship	ณ -	15	<b>~</b>	ω,	12	<b>~</b> i	10	07	<b>-</b> (	4 (
business procedures		21	rd	9	දි .	<b>~</b>	10	Q	N 1	کر ا
ability to work with others	s 5	5	<b>~</b>	91	4.0	<b>,</b>	01	45	,,	t
_		4 - 10 i	⊣,	۰ ۵	サ こ い	,,	0 0	8	<b>-</b>   -	ر د ح
fair treatment of minorities		<b>4</b>	<b>-</b>	o	4	<b>-</b>	Z <b>T</b>	8	4	đ

This is the number of respondents who indicated the required hours for Col. H of Table 9 (Ability to Talk About It). For the other 2 median hour columns, the number may vary slightly.

Table 14 (continued)

	General Notion			ity to	Talk		ity	to Job		
Subject (1	(Median)	Max.	Min.	(Median)	Max.	Min.	(Median)	Max.	Min,	Respondents
	O	ג	_	vo	25	<b>~</b>	10	30	<b>ત</b>	<b>1</b> 43
	1 (	វិប៊	i	v	٠ <u>٦</u>	-	∞	66	m	S
money and banking	V (	t <u> </u>	4 6	<b>V</b>	· -	i	<b>c</b>	20,	, <b>-</b>	<b>1</b>
internal organization	<b>,</b>	)   	⊣ (	٥,	) (	-i -	ָר ב	१६	i ,	ج.
group discussion	m	04	<b>,</b>	٥,	2 6	<b>-</b> 1 ,	2 5	3 4	-i -	140
federal laws and regulations		90	<b>~</b>	۰ م	2	<b>ન</b> (	2 6	‡ r	<b>-</b> 1 (	, u
		8	-	9	8	<b></b> 1 :	2 :	کر کر	ν,	76
trensmortation	ณ	25	-	₹	25	<b>д</b> ,	91	3.2	<b>⊣</b> ,	ر د د
inventory records	m	8	<b>~</b>	~	8	<b>-4</b> :	O	<b>3</b> ; 8	⊣ ,	) -
	ന	8	H	5	66	H	15	3.	<b>,-</b> i	T !
40	m	15	٦	7	30	<b>~</b>	∞	42	H	<i>).</i> †
							,	-	(	ć
6 for setting prices	~	<b>9</b> 1	<b>~</b>	~	32		10	Ω,	<b>Q</b>	
Q	ം വ	<b>1</b> 6	-	<b>ا</b>	32	-	6	φ,	<u>.</u>	<b>1</b>
represent telles	<b>4</b>	<b>0</b> 7	-	2	20	W	20	8	m	တ္တ
prepared value nerson-to-nerson discussion	• •	25	<b>~</b>	Š	<b>6</b> 40	<b>~</b>	10	8:	N	<b>33</b> 3
	m	8	<b>~</b>	r	35	-	<b>∞</b>	84	<b>ન</b> (	33
	m	75	<b>~</b>	5	18	<b>,</b> -1	01	ဇ္ဇ	α.	N S
report writing	7	15	a	2	8,	<b>Q</b> :	<b>1</b> 0	8,6	<b>寸</b> •	ဝ ဗွ
	ત	10	H	~	8	<b>,</b>	Λo	83	٠ ,	2 ;
calculator	ณ	10	-	r C	9	, i	ю <b>с</b>	8 6	<b>-</b> (	<b>1</b> α
economic cycles	Q	12	<b>,</b>	ını	ဍ	,	ν. ξ	ָרֶל ער	ט מ	) t
type of business organization		80	<b>,</b>	<b>^</b> -	2 6	, ,	3 0	<b>?</b> {	O F	4 9
fashion trends	က	<b>လ</b> ်	⊣,	<b>3</b> -	26	-4 (	να	3 8	<b>-</b> 17	) <del>-</del>
world trade	N	20	<b>-</b> 4 :	<b>⇒</b> -	2 (	N ·	0 4	2 6	<b>;</b>	T (
listening and observing	<b>a</b>	20	rd (	<b>#</b>	ν, Ο ι	<b>⊣</b> •	1 0	א ני	- C	30
unions	(U )	15	<del>, ,</del>	<b>=</b>	T C	<b>-</b> (	~ c		î r	<u>ر</u> د
	O 0	8 6		<b>4</b> 4	r C	V r-1	ွှထ	84	<b>∖</b> ғ⊣	1 T
business locations	ı m	16	i ~i	্ব	8,8	<b>;</b> ;	σ,	84	Q	35
	•									

Table 14 (continued)

ERIC Provided by ERIC

Number of	M. M. R.	2 15	1 39	28	1 %	1 33	J 30	07	0i 4	1 22	1 3	1 66
ço Job	Max.	45	₹	20	50	50	25	15	10	8	0	8
Ability to Apply on Jo	(Median)	9	<b>ب</b>	10	갋	2	<b>ن</b>	<b>≈</b> † •	<b>≠</b> .	. <del>a</del> t	80	H
	Min.	H	<b>~</b> 1	-	-	بــ،	႕	Н	ന	Н	<b>~</b>	84
alk	₩x.	80	18	30	10	10	25	10	S.	16	S S	84
Ability to Talk About It	(Median)	<b>4</b>	<b>4</b>	4	m	m	m	m	m	ત	<b></b> 1	<b>ન</b>
A	Mex. Min.	~	~	~	<b>~</b>	Н	Н	-	ત્ય	-	<b>-</b> -1	12
	Max	15	12	15	9	2	15	r	7	ω	8	15
General Wotfon	(Median)	a	Q	ત	ત	ત્ય	Q	a	Q	evices 1	<b>-</b> -1	<b>ત</b>
	Subject	mental arithmetic	seasonal fluctuations	Insurance	use of the telephone	cash register	local trade laws	making change	dictaphone	weighing or measuring devices	basic grammar	cultural development

(Total teacher-coordinators responding for per cent figures 108 - less omitted responses shown in Table 9) Table 15 Time and Place to Teach Most Important Community College Distributive Education Subjects

7	Teaching Hours To Apply (Wedian)2		20 10 20 20		45   6
9	Best Taught In Non-D.E. Classroom (%)		61 62 58 55		35
5	Teaching Hours To Apply (Median) <sup>2</sup>	01 01 01 01 01	9 07 701	30	6 15 131
7	Best Taught in D. E. Classroom (%)	88 93 88	26 30 51 73 13	95	30 36 86 Totals
٣	Doesn't Belong in D. E. Curriculum (%)	0014 0	33 16 16 34 34 34	0	ଷ୍ଟ ଷ୍ଟ ଷ
Q	Frep'n Rank 1	6 8 11	38691168236	10	۲ اع اع
т	Importance Rank l	25 11 1	51 80 4 60 51 4 60 51 4	9	7 16 19
Column:	Item	Human Relations: Ability to work with others Ability to deal with superiors Fair treatment of minorities Business etiquette Getting others to work effectively	Scommunications: Basic grammar Letter Writing Report writing Listening and observing Person-to-person discussion Use of the telephone Group discussion Reading for comprehension	Marketing: Salesmanship	Mathematics: Basic arithmetic Mental arithmetic capability Business arithmetic

From Vol. I, Table 3, p. 25, columns 4 and 8, respectively.

<sup>2</sup>From Table 10, column I, page 43.

<sup>\*</sup>Included in both columns, because opinion is easily divided on best location to teach.

agreement among teacher-coordinators that the items can best be taught in a community college distributive education classroom (see Column 4). However, for Basic Grammar, Letter Writing, Report Writing, Reading for Comprehension, Basic Arithmetic, and Mental Arithmetic Capability there is substantial agreement that they should be taught in the nondistributive education classroom (see Column 6). Because of the importance of the items, the list gives median judgment of classrcom hours required (see Columns 5 and 7) to teach the average distributive education student to apply the item independently in a work situation. This arrangement permits the reader to relate at a glance importance and preparation to classroom hours needed for both distributive education and non-distributive education classroom subjects. The median total classroom time which teacher-coordinators believe is necessary to teach the average student to apply independently in a work situation those subjects best taught in the distributive education classroom is 131 hours; for subjects best taught in the non-distributive education classroom, total time is 95 hours.

# Place for Most Important Personal Characteristics for Community Colleges

Table 16 shows those personal characteristics which employers (speaking of their supervisory employees) say are most important or moderately important and seriously lacking in preparation. There is nothing even approaching unanimous agreement on where these should be taught or developed, although for most, a larger percentage favors "On the Job," and for some, a majority (50 per cent or more) does so. For only one, Honesty, does a larger percentage favor the distributive education classroom.

# Conclusions for Community Colleges

A majority of the coordinators agree that all but one (Higher Mathematics) of the subjects on our list belong in the distributive education curriculum. However, there also is agreement that 27 of the 67 subjects should not be tuaght in the distributive education classroom. For 19 of those 27, there is majority agreement, and for the rest there is substantial agreement in favor of some other classroom. This means that instructors from other disciplines should be involved in the distributive education curriculum in an important way.

The picture is different for personal characteristics. A majority agrees that 19 characteristics should be developed on the job. The question of whether or not a formal mechanism for accomplishing this can be developed needs to be examined. It may be that a syllabus can be prepared for employers in cooperative student employment programs, or it may be that the student should have the syllabus. Whatever the case may be, if an acceptable program cannot be developed on the job, the student can still be serviced, because a majority agrees in every case that the characteristics can be taught in the distributive education classroom.



Table 16 Place for Most Important Personal Characteristics for Community College Distributive Education Programs (Total teacher-coordinators responding for per cent figures 108 - less omitted responses shown in Table 10)

	TO CHANGE OF CHOOSE TO CONTRACT	The Oriented Anne	Cott Company and		
	Item	Importance Rank 1	Preparation Rank 1	Best Taught in D. E. Classroom (%)	Best Taught On the Job (%)
	Honesty	Н.	H	94	33
	Dependability	7	m	8	51
	Willingness to assume				-
	responsibility	Υ.	T	15	4, W,
	Loyalty	<b>≠</b>	m	18	99
	Willingness to abide by				,
	regulations	10	ℷ	30	<b>6</b> 2
	Pride in doing work well	9	13	25	<b>9</b> 2.
	Initiative	5	50	34	75
	Attention to detail	7,7	28	33	25
	Enthusiasm	_	19	ଧ୍ୟ ୯	<b>T</b> †
	Ability to apply knowledge	11	<del>7</del> .r	91	11
6	Leadership*				
2	Ability to take constructive			•	•
	criticism	6	22	38	7.0
	Tactfulness	13	25	33	911

<sup>..</sup> From Volume I, Table 6, p. 31, columns 3 and 6, respectively.

<sup>\*</sup>Most respondents believed leadership items were best taught in the DECA program. See Table 12, page 50.

The study also shows that, even though all but one of the subjects belong in the curriculum, attempting to raise all students to the highest level of understanding in every subject would be impossible, because the time requirement would be too great. However, by varying the time allotment with the importance of the subject, an adequate distributive education program can be developed within the time available to most community college programs.



#### SURVEY OF ADDITIONAL TRAINING NEEDED

The survey of additional training needed asked teacher-coordinators:

- 1. What they consider to be distributive education subjects and what they think should be taught in a D. E. classroom.
- 2. Total class hours usually devoted to these subject areas in the respondent's D. E. program.
- 3. Additional education they needed for:
  - a. 67 subject areas
  - b. 52 personal characteristics
  - c. 3 general D. E. teaching categories.

The results which follow represent returns from the 50 states, except Washington. Washington results were tabulated separately. But, whenever appropriate, a comparison of similar data for Washington versus the other states is made in footnotes. In addition, detailed tables for Washington state only are included in the Appendix.

This chapter presents the findings for areas 2 and 3 mentioned above—namely, the total class hours devoted to subject areas in the program and additional education needed. The first area—relating to specific subjects that coordinators consider to belong in distributive education—has already been discussed in the previous chapter. The findings for high schools and community colleges are presented separately, so that coordinators in the 2 academic levels can concentrate on data pertinent to their respective interests.

#### Response Rate

The research group mailed a questionnage to all high school distributive educators (72) in the State of Washington, to a random sampling (approximately 1 out of every 5) of 430 D. E. high school coordinators in the other 49 states, to all mid-management D. E. coordinators (32) in the State of Washington, and to half the mid-management coordinators (187) throughout the remaining 49 states.<sup>2</sup>



<sup>1.</sup> A copy of this questionnaire is shown in the Appendix on pages 99 to 105.

<sup>2.</sup> Pages 108 to 121 in the Appendix give background data about the respondents-universities attended, highest degree held, college majors and minors, age, experience, etc. This information, coupled with that found on pages 106 and 107, gives a fairly complete picture of the coordinators as educators.

The usable responses exceeded 70 per cent for all high schools and 60 per cent for all community colleges, as shown below:

Category	<u>Number</u> <u>Sent</u>	<u>Number</u> Responding	Per Cent Responding
High Schools 49 States Washington	430 <b>7</b> 2	3 <b>1</b> 4 54	73% 75%
Community Colleges 49 States Washington	187 32	114 21	61 <b>%</b> 65 <b>%</b>

### High Schools

# Hours in D. E. Program Devoted to Most Important Subjects

When filling out the questionnaire for this survey, the coordinator first had to decide if each of the 6? subject entries was a D. E. subject or should be taught in a D. E. classroom. If he decided in the affirmative, then he jotted down the total class hours usually devoted to this subject in his D. E. program. This section reports the median hours devoted to the subjects.

Only 4 (Salesmanship, Group Discussion, Advertising, and Sales Promotion) of the 67 subject areas are allotted 10 or more hours (median) in the D. E. program (see pages 122 and 123 in Appendix). All four subjects are considered part of distributive education. The rest receive 5 hours or less. Furthermore, coordinators devote zero hours to 5 areas (Reading Fast, Higher Mathematics, Typewriter, Dictaphone, and Calculator)—areas all falling in the least appropriate D. E. subject list.



<sup>1.</sup> Number of hours devoted to subjects for Washington state compares fairly closely. Whereas the list for the 49 states shows coordinators spend 10 or more hours on only 4 subjects, the list for Washington includes those same 4, plus 4 others. Salesmanship for both groups tops the list for hours spent on a subject. See pages 124 and 125 for the Washington data.

<sup>2.</sup> See list on page 24.

<sup>3.</sup> Washington again compares closely -- these same 5, plus Penmanship and Accounting.

Perhaps the most useful purpose served by establishing the hours devoted to given subjects is relating them to the 13 subject areas that should be taught in the distributive education classroom and that businessmen consider highly important or moderately important but seriously lacking in preparation.

As the table below shows, only 2 of these 13 subjects receive more than 5 hours in the entire distributive education program. Furthermore, coordinators devote less than 5 hours to more than half (8 of the 13) of the entries.

Subjects	Hours
Human relations Ability to work with others Ability to deal with superiors Fair treatment of minorities Business etiquette Ability to get others to work effectively	5 2 2 3 4
Communications Listening and observing Person-to-person discussion Use of the telephone Group discussion	2 5 3 10
Marketing Salesmanship	25
Mathematics Making change Business arithmetic Mental arithmetic capability	2 5 2

As one might expect, the greatest allocation of time goes to Salesmanship. Other subjects that receive 5 or more hours in the program are Group Discussion, Ability to Work with Others, Person-to-Person Discussion, and Business Arithmetic.

<sup>1.</sup> See pg. 59 in Volume I.

## Coordinators' Need for Additional Education in Subject Areas

The respondent estimated his degree of need for additional education or training for a particular knowledge or skill entry only if he indicated that it was a D. E. subject or should be taught in a D. E. class-room.

This section summarizes the need estimates made by high school coordinators. Identical subject entries were ranked for importance by employers concerning their non-supervisors. The results of these 2 evaluations, by educators and employers, are presented in 2 different listings—one showing subjects in which coordinators say they especially need additional education, and one showing subjects in which they say they don't need as much additional education.

Important Subjects Needing Most Education. Given on the following page are the subject areas in which coordinators say they especially need additional education.<sup>2</sup> Included in the list are only those entries that fall both in the upper 50 per cent of the 67 skills and knowledge needing the greatest education<sup>3</sup> and the upper 50 per cent of those that businessmen considered most important on the job for their non-supervisors.<sup>4</sup>



<sup>1.</sup> The questionnaire, shown on pages 99 to 105 in the Appendix, asked the respondent to encircle 1 of 9 numbers. Number 1 meant he believed he needed a very substantial amount of additional education or training. On the other hand, No. 9 meant very little or none. The numbers between 1 and 9 indicated varying degrees of need.

<sup>2.</sup> The Washington list contains 11 entries-9 of which are found in the national list. The other 2 are Group Discussion and Salesmanship. On the other hand, Basic Grammar in the national list doesn't appear in the Wasington list. See Tables AlO and Al2 in the Appendix for details.

<sup>3.</sup> See Tables All and Al4 on pages 129, 136, the Appendix. Table All shows the complete list of 67 subject entries categorized by area, ranking of need, and per cent of respondents who showed much need or little need for each entry. Table Al4 gives the 67 entries listed from greatest to least need determined by mean score.

<sup>4.</sup> See pages 25 and 26 in Volume I for the ranking of entries by importance for employers concerning non-supervisors in marketing and distribution jobs.

Areas	Area Code <sup>a</sup>	Ranking of Additional Education Neededb	Importance Ranking <sup>C</sup>
	A 1997 177 177	E	20
Local trade laws	OTHER	6	30
Sales promotion	MKT	7	31
Fashion trends	MKT	8	27
Federal laws and			
regulations	OTHER	10	29
Labor-management			
relations	BOPM	21	*
Basic grammar	C	26	9
Inventory records	MKT	29	<b>2</b> 2
Stockkeeping and			_
inventory control	MKT	31	18
Credit	MKT	31	2 <sup>l</sup> 4
Penmanship	C	33	16

- a. Each of the 67 subject areas are categorized under 1 of the following 9 fields. The code for these groupings is in parentheses: Communications (C), Mathematics (Math), Human Relations (HR), Marketing (Mkt), Financial Records (FinR), Machines of Business (MB), Economics (Eco), Business Organization, Procedure, and Management (BOPM), and Other knowledge (Other).
- b. Only the upper 50% of the 67 skills and knowledge are included.
- c. Only the upper 50% of the 62 skills and knowledge are included.
- \* Entry isn't found in the list that employers considered.

With only 10 of the 67 entries in the above list, one can conclude that coordinators believe they are fairly well prepared in most of their subject areas. Also, the high average (mean) score shown on pages 136 and 137 in the Appendix strengthens this statement. Five of these 10 subjects especially needing additional education fall in the field of marketing, 2 in communications.

Important Subject Areas Needing Less Education. While the coordinators listed only 10 subjects in which they believed most additional education was needed, these same respondents mentioned 26 entries in which they said they did not need as much additional education.

<sup>1.</sup> The Washington list contains 25 entries--24 that also appear in the national list, plus Basic Grammar. On the other hand, only the national list includes Salesmanship and Group Discussion. See Tables Al3 and Al0 in the Appendix for details.

As the following table shows, 20 of the 26 subjects fall in 4 areas--Communications; Human Relations; Mathematics; and Business Organization, Procedure, and Management. Included in the list are only those entries that fall both in the lower 50 per cent of the 67 skills and knowledge needing the greatest education and the upper 50 per cent of those that businessmen considered most important on the job for non-supervisors.

	Area Code	Ranking of Additional Education Neededa	Importance Ranking <sup>b</sup>
Salesmanship	MKT	35	4 14
Reading for comprehension	C	36	74
Internal organization			15
relations	BOPM	3 <b>7</b> 38	15 20
Group discussion	C	38	<i>2</i> ∪ *
Supervision	BOPM	39 41	*
Role of profit	ECO		-
Listening and observing	C	45	2 28
Report writing	C	<u>47</u>	
Free enterprise system	ECO	48	23 *
Channels of distribution	MKT	49	*
Ability to get others to			12
work effectively	HR	50	13 *
Business procedures	BOPM	52	
Spelling	C	53	17
Type of business			*
organization	BOPM	54	<del>7.</del>
Person-to-person			c
discussion	C	55	5
Mental arithmetic			10
capability	MATH	<b>57</b>	12
Ability to work with		-0	•
others	HR	58	1 8
Business etiquette	HR	59	O

# (continued on the next page)

- a. Only the lower 50% of the 67 skills and knowledge are included.
- b. Only the upper 50% of the 62 skills and knowledge are included.
- \* Entry isn't found in the list that employers considered.



<sup>1.</sup> See pages 25 and 26 in Volume I for the ranking of entries by importance for employers concerning non-supervisors in marketing and distribution jobs.

Areas	Area Code	Ranking of Additional Education Meded	Importance Renking
Fair treatment of		60	7
minorities	HR	60	
Cash register	MACH	61	26
Business arithmetic	MATH	62	21
Ability to deal with		_	_
superiors	HR	62	3
Use of the telephone	C	64	10
Basic arithmetic	MATH	65	6
Adding machine	MACH	66	25
Making change	MATH	67	11

# Coordinators' Need for Additional Education or Training for Developing Personal Characteristics

Upon completing the 67 subject areas of the questionnaire, the respondent was asked to evaluate how well prepared he believed himself to be at that moment to teach or develop 52 listed personal characteristics. Results for high schools are discussed in this section.

In most instances, the subjects included in the 2 questionnaires of the present volume, Volume II, correspond in wording and number to those discussed in Volume I. For example, practically all the 62 subject entries in the first study are also found in the 67 subject areas of this volume. Where personal characteristics are concerned, however, the story is different. For example, only 27 of the 29 structured characteristics in Volume I are included in the 52 structured characteristics of Volume II. The original list of 29 personal characteristics was expanded to 52 for the present study because results from unstructured questions showed the importance to businessmen of the additional ones. As to classification, the 52 characteristics were organized into the following 8 categories. The code for these groupings is in parentheses.

Motivation or caring about job (Motiv)
Mental ability (Mental)
Human relations (HR)
Work habits and work behavior (Work)
Leadership (Lead)
Attitude toward job (Atti)
Temperament (Temp)
Other individual personality and behavioral characteristics (Other)

The additional characteristics found in Volume II but not in Volume I justify the many asterisks used when comparing rank of additional education needed with importance on the job.

<sup>1.</sup> See pp. 99 to 105, Volume I, for details.

The discussion is divided into 2 sections--personal characteristics in which coordinators especially need additional education or training, and those not needing as much additional education or training. To show this degree of need, a comparison is made between the coordinators' need estimates and what employers consider important for their supervisors.

One final remark. The extremely high average (mean) for all 52 personal characteristics indicates that the coordinators do not think they have urgent need for additional training. As explained on the instruction sheet of the questionnaire (page 99), 9 means little or no additional training; 1, a very substantial amount. The mean ranges from 6.73 to 8.49 for the characteristics. In contrast, the mean scores shown on pages 136 and 137 for the subject areas range from 4.16 to 7.78.

Important Characteristics Needing Most Training. If only the upper 50 per cent of the ranked 52 personal characteristics is compared to the upper 50 per cent of the ranked 29 personal characteristics, 8 of the 18 resulting entries fall within the categories of Mental Ability and Temperament.<sup>2</sup> In fact, 5 of the possible 8 Mental Ability characteristics and all 3 of the 3 Temperament characteristics fall into the upper 50 per cent, ranked by importance. This information is shown in the table on the following page.

<sup>1.</sup> See Tables Al5 and Al6 on pages 138 and 140, the Appendix. Table Al6 shows the complete list of 52 personal characteristic entries categorized by area, ranking of need, and per cent of respondents who showed much need and little need for each entry. Table Al5 lists the 52 entries from greatest to least need determined by mean score.

<sup>2.</sup> The Washington list contains 20 characteristics--17 of which are also found in the national list--plus Willingness to Take Orders, Congeniality, and Willingness to Take Constructive Criticism. In addition, only the national list includes Tolerance. See Tables A 17, and Al8 on pages 143 to 145, the Appendix, for details.

Cheracteristics	Area Code	Ranking by Additional Education Neededa	<u>Importance</u> Rankingb
Characteristics	code	Education Accued	Hamsin
Memory	MENTAL	1	*
Ability to analyze	MENTAL	4	*
Willingness to do routine			
work	MOTIV	5	9
Thinking quickly	MENTAL	6	*
Attention to details	WORK	8 8	6
Patience	TEMP	8	*
Ability to apply knowledge	MENTAL	10	14
Alertness	MENTAL	11	*
Aggressiveness	VITOM	12	*
Get people to work well	LEAD	14	*
Control of temper	TEMP	14	*
Ability to organize	LEAD	16	*
Accuracy	WORK	3.8	*
Toleranc	TEMP	1.9	*
Ability to take constructive	ve	•	
criticism	HR	21	8
Tactfulness	HR	22	13
Persevarance	MOTIV	23	*
Outgoing - sociable	HR	23	*

a. Only the upper 50% of the 52 personal characteristics are included.

b. Only the upper 50% of the 29 personal characteristics are included.

\* Entry isn't found in the list that employers considered.

All 18 of these characteristics fall within 6 of the 8 major characteristic categories. In addition to Mental Ability and Temperament, the other 4 categories are Motivation or Caring About Job, Human Relations, Work Habits and Work Behavior, and Leadership. Excluded are characteristics that fall within the classification of Attitude Toward Job and Other Personality and Behavioral Characteristics.

Important Characteristics Needing Less Training. The characteristics in which the coordinators need less additional training are determined by 2 factors—those characteristics still considered most important by businessmen and at the same time those that require the least additional training by coordinators. In other words, the characteristics discussed here are those that fall in the upper 50 percentile of the list of businessmen consider most important and at the same time fall in the lower 50 percentile of the list coordinators believe they need least training in.<sup>2</sup>

<sup>1.</sup> See importance column headed "Employers about Non-supervisors" on pages 31 and 32 in Volume I.

<sup>2.</sup> See Table Al5on pages 138 and 139, the Appendix.

The following table shows the resulting characteristics. The 22 characteristics listed fall in 6 of the 8 possible categories, namely Motivation, Human Relations, Work Habits, Leadership, Attitude Toward Job, and Other Characteristics. In the previous section, the characteristic entries allotting high importance ranking to additional training emphasized Mental Ability and Temperament; in this section the characteristic entries relating to these 2 categories are excluded.

Characteristics	Area Code	Ranking by Additional Education Neededa	Importance Ranking <sup>D</sup>
Willingness to take			
constructive criticism	OTHER	27	*
Initiative	OTHER	28	7
Ambition	VITOM	29	*
Application to the task	ATTI	30	*
Congeniality	HR	31	*
Enthusiasm	VITOM	32	12
Determination	VITOM	33	*
Willingness to take			
orders	WORK	34	*
Smile	OTHER	35	15
Ability to talk easily		_	
with people	HR	36	*
Willingness to work		_	
on own	WORK	36	*
Willingness to abide			•
by regulations	WORK	38	4
Showing interest in job	ATTI	41	*
Pride in doing work well	VITOM	42	5
Understanding what work			
means	ATTI	44	*
Desire to help others	LEAD	45	*
Friendliness	HR	47	10
Sincerity	OTHER	47	11
Ability to get along			
with people	HR	49	*
Loyalty	WORK	50	3
Dependability	OTHER	51	3 2 1
Honesty	OTHER	52	1
····· <del>-</del>			

a. Only the lower 50% of the 52 personal characteristics are included.

b. Only the upper 50% of the 29 personal characteristics are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

<sup>1.</sup> The Washington list contains 20 characteristics--19 also found in the national list--plus Tolerance. Included only in the national list are Willingness to Take Constructive Criticism, Congeniality, and Willingness to Take Orders. See Tables A19, A15, and A18 on pages 146, 138, and 144 in the Appendix for details.

The 6 classifications shown on page 73 seem fairly well divided, except for the lone characteristic relating to Leadership. Otherwise, the other groups range from 3 to 6 entries, with "Other" heading the list.

# Degree of Preparation in General D. E. Teaching Matters

The only remaining high school results from the questionnaire that yield data for this chapter concern the relative degree of reed that coordinators experience for additional education in general distributive education teaching matters. These include 4 types: coordinators' skills, guidance, teaching with projects, and designing individual projects.

The respondents indicated their need by encircling 1 number among number choices ranging from 1 through 9. As mentioned previously, 9 means little or no additional education or training needed; 1 means need for a very substantial amount of education or training.

As Table A20 on page 147 indicates, average (mean) for high schools exceeds the mid-point of 5. In other words, all coordinators as a group believe they are fairly well prepared to teach in all 4 areas. The same table also shows that high school coordinators believe themselves best prepared in coordinating skills and guidance. The other 2 categories, teaching with projects and designing individual projects, essentially tie for third place.

Another way to check the coordinators' preparation here is to note the percentages shown in the columns headed "Very Well Equipped" and "Very Poorly Equipped." The teachers believe themselves best prepared in guidance (72%) and least prepared in teaching with projects and designing individual projects.

## Conclusions

1. Coordinators devote an unusually greater number of hours to Salesmanship than to 12 other skills and knowledge areas that businessmen consider important and in which they say their non-supervisory personnel are inadequately prepared. Of these 13 subject areas, coordinators spend on the average 25 hours on Salesmanship and 10 hours on group discussion in their distributive education programs. Each of the remaining 11 areas—all considered important—receive 5 hours or less in the entire program.



<sup>1.</sup> The Washington figures rank closely to the national figures for degree of preparation for high schools. Yet, a larger percentage of Washington high school coordinators consider themselves much better equipped (70.8) in coordinating skills. See Table A21 on page 148 in the Appendix for details.

- 2. Coordinators believe they are fairly well prepared in most of the 67 tested subject areas for the following reasons:
  - a. Not one of the areas considered distributive education fall below an average (mean) of 5.0 on a 1-through-9-point scale. ("1" means respondent believed he needed a very substantial amount of additional education or training; "9," very little or none.)
  - b. Coordinators believe they especially need additional education in only 10 of the 67 subjects. And none of them are included in the list of most important subjects in Volume I.
  - c. Coordinators indicate 26 subjects that businessmen consider important for non-supervisors in which they need least additional training. Of these 26 entries, 20 fall in 4 general areas-Communications; Human Relations; Mathematics; and Business Organization, Procedure, and Management.
- 3. Coordinators believe they need even less additional education or training in personal characteristics than in skills and knowledge subjects. The characteristics that need the most emphasis include a large proportion of those that fall under the classification of Mental Ability and Temperament; nothing relating to Attitude Toward Job or Other Individual Personality and Behavior appear in this list. On the other hand, the characteristics that require less additional training do not include any entry relating to Mental Ability and Temperament.
- 4. Coordinators, as a group, believe they are fairly well prepared in coordinating skills, guidance, teaching with projects, and designing individual projects-especially in the first 2.

## Community Colleges

The format for this section on the results from coordinators in community colleges is identical to that for the preceding section on high schools.

## Hours in D. E. Program Devoted to Most Important Subjects

When filling out the questionnaire for this survey, the coordinator first had to decide if each of the 67 subject entries was a D. E. subject or should be taught in a D. E. classroom. If he decided in the affirmative, then he jotted down the total class hours usually devoted to this subject in his D. E. program. This section reports the median hours devoted to the subjects.



Mid-management coordinators devote 8 or more hours to 12 subject areas, 1 and Accounting (not Salesmanship) leads the list with 45 hours, on the average. (See list on pages 149 and 150 in the Appendix.)<sup>2</sup> All except 3 (Accounting, Business Law, and Basic Arithmetic) of these 12 subjects should be taught in the community college distributive education classroom.<sup>3</sup> The other subjects get 6 hours or less. Furthermore, coordinators devote zero median hours to 2 areas (Higher Mathematics and Dictaphone)—but then both fall in the least appropriate distributive education subject list.<sup>4</sup>

Perhaps the most useful purpose served by establishing the hours devoted to given subjects is relating them to the 14 subject areas that should be taught in the distributive education classroom and that businessmen consider highly important or moderately important but seriously lacking in preparation.

Overall, mid-management coordinators devote more time to their 14 areas than do the high school counterparts with their 13. The table on the following page shows that 5 of the 14 subjects receive more than 5 hours in the entire distributive education program. Only 4 areas receive less than 5 hours.



<sup>1.</sup> These 12 subjects are Accounting, Salesmanship, Advertising, Business Law, Business Arithmetic, Group Discussion, Prepared Talks, Basic Arithmetic, Sales Promotion, Supervision, Buying, and Channels of Distribution.

<sup>2.</sup> In contrast, coordinators in Washington devote 8 or more hours to 25 subjects with Salesmanship topping the list, with 50 hours. See pages 151 and 152 for the Washington data.

<sup>3.</sup> See Table 12, page 50.

<sup>4.</sup> Washington devotes zero (mean) hours to 4 areas--Higher Mathematics, Statistics, Cash Register, and Weighing and Measuring Devices.

<sup>5.</sup> See pages 71 and 72 in Volume I.

Subjects	Hours
Human relations	
Ability to work with others	6
Ability to deal with superiors	5
Fair treatment of minorities	5 5 4
Business etiquette	4
Ability to get others to work effectively	6
Communications	
Letter writing	3
Report writing	5
Listening and observing	3 5 5 5 2
Person-to-person discussion	5
Use of the telephone	2
Group discussion	10
Marketing	
Salesmanship	<b>36</b>
Mathematics	
Mental arithmetic	4
Business arithmetic	15

The foregoing table shows that the most time is allotted to Sales-manship--36 hours. This figure exceeds the average time spent on the same subject in high schools.

## Coordinators' Need for Additional Education in Subject Areas

The respondent estimated his degree of need for additional education for a particular knowledge or skill entry only if he indicated that it was a distributive education subject or should be taught in a distributive education classroom.

This section summarizes the need estimates made by community college coordinators. Identical subject entries were ranked for importance by employers concerning their supervisors. The results of these 2 evaluations, by educators and employers, are presented in 2 different listings—one showing subjects in which coordinators say they especially need additional education, and one showing subjects in which they say they don't need as much additional education. The degrees of additional education that coordinators say they need in the 67 subjects are surprisingly similar to those of their high school counterparts.



<sup>1.</sup> The questionnaire, shown on pages 99 to 105 in the Appendix, asked the respondent to encircle 1 of 9 numbers. Number 1 meant he believed he needed a very substantial amount of additional education or training. On the other hand, No. 9 meant very little or none was needed. The numbers between 1 and 9 indicated varying degrees of need.

Important Subjects Needing Most Education. Given below are the 12 subject areas in which coordinators in community colleges say they especially need additional education. Included in the list are only those entries that fall both in the upper 50 per cent of the 67 skills and knowledge as needing the greatest amount of education and the upper 50 per cent of skills businessmen considered most important on the job for their supervisors. Seven of these 12 areas appear in the list in which high school coordinators also say they especially need additional education. 2,3

Areas	Area Code <sup>a</sup>	Ranking by Additional Education Neededb	Importance Ranking <sup>c</sup>
Local trade laws Fashion trends	OTHER MKT	3 5	25 28
regulations regulations Forecasting Reading for comprehension Sales promotion Buying Listening and observing Credit Basic grammar Report writing	OTHER ECO C MKT MKT C MKT C	8 13 13 19 20 21 23 25 30	29 31 14 27 30 4 23 13 26
Inventory records	MKT	33	17

- a. Each of the 67 subject areas are categorized under 1 of the following 9 fields. The code for these groupings is in parenthesis: Communications (C), Mathematics (Math), Human Relations (HR), Marketing (Mkt), Financial Records (FinR), Machines of Business (MB), Economics (Eco), Business Organization, Procedure, and Management (BOPM), and Other Knowledge (Other).
- b. Only the lower 50% of the 67 skills and knowledge are included.
- c. Only the upper 50% of the 62 skills and knowledge are included.

<sup>1.</sup> The Washington list includes 13 entries--10 found in the national list, plus Labor-management Relations, Spelling, and Ability to Work with Others. Those found only in the national list are Buying and Inventory Records. See Tables A25 and A27 in the Appendix for details.

<sup>2.</sup> See Tables A24 and A28 on pages 153 to 157, and 163 to 164 in the Appendix. Table A24 shows the complete list of 67 subject entries categorized by area, ranking of need, and per cent of respondents who showed much need or little need for each entry. Table A28 lists the 67 entries ranked from greatest to least need, as determined by the mean score.

<sup>3.</sup> See pages 25 and 26, Volume I, for the ranking of entries for importance by employers concerning supervisors in marketing and distribution jobs.

The table on the preceding page stresses the need in 2 areas-Marketing and Communications. The same emphasis on these 2 areas appears in the high school list.

Important Subject Areas Needing Less Education. While the coordinators listed 12 subjects in which they believed they needed the most additional education, these same respondents mentioned 24 entries in which they said they did not need as much additional education.

As the table on the following page shows, 15 of the 24 subjects fall into 3 areas-Human Relations; Communications; and Business Organization, Procedure, and Management. To a lesser degree the others relate to 3 other areas-Marketing, Mathematics, and Economics.<sup>2</sup> Included in the list are only those entries that fall both in the lower 50 per cent of the 67 skills and knowledge needing the greatest education and the upper 50 per cent of those that businessmen considered most important on the job for supervisors.

<sup>1.</sup> The Washington list includes 23 entries--20 found in the national list, plus Buying, Inventory Records, and Seasonal Fluctuations. Those found only in the national list are Labor-management Relations, Seasonal Fluctuations, Ability to Work with Others, and Spelling. See Tables A26 and A27 in the Appendix for details.

<sup>2.</sup> See pages 25 and 26 in Volume I for the ranking of entries for importance by employers concerning supervisors in marketing and distribution jobs.

	Area	Ranking by Additional Education Neededa	Importance Rankingb
Areas	Code	Eddcaflou Medden	Termerie.
Stockkeeping and inventory			• 0
control	MKT	36	18
Labor-management relations	BOPM	38	*
Ability to get others to		- 0	•
work effectively	HR	38	1
Penmanship	C	40	24
Seasonal fluctuations	ECO	7474	21
Ability to deal with		•	_
superiors	HR	45	5
Role of profit	ECO	46	*
Ability to work with		•	•
others	HR	47	2
Supervision	BOPM	49	*
Person-to-person			•
discussion	C	50	3
Free enterprise system	ECO	51	20
Business arithmetic	MATH	52	19
Internal organization			•
relations	BOPM	53	9
Fair treatment of		1	20
minorities	HR	54	12
Group discussion	C	55	15
Channels of distribution	MKT	55	*
Salesmanship	MKT	57	6
Business etiquette	HR	58	11
Business procedures	BOPM	59	*
Type of business			u
organization	BOPM	60	*
Spelling	C	61	22
Use of the telephone	C	63	8
Mental arithmetic	MATH	64	16
Basic arithmetic	MATH	66	7

- a. Only the lower 50% of the 67 skills and knowledge are included.
- b. Only the upper 50% of the 62 skills and knowledge are included.
- \* Entry isn't found in the list that employers considered.

# Coordinators' Need for Additional Education or Training for Developing Personal Characteristics

Upon completing the 67 subject areas of the questionnaire, the respondent was asked to evaluate how well prepared he believed himself to be at that moment to teach or develop 52 listed personal characteristics. Results for the community colleges are discussed in this section.



In most instances, the subjects included in the 2 questionnaires of the present volume, Volume II, correspond in wording and number to those discussed in Volume I. For example, practically all the 62 subject entries in the first study are also found in the 67 subject areas of this volume. Where personal characteristics are concerned, however, the story is different. For example, only 27 of the 29 structured characteristics in Volume I are included in the 52 structured characteristics of Volume II. The original list of 29 personal characteristics was expanded to 52 for the present study because results from unstructured questions showed the importance to businessmen of the additional ones.1 As to classification, the 52 characteristics were organized into the following 8 categories. The code for these groupings is in parentheses.

Motivation or caring about job (Motiv)

Mental ability (Mental)

Human relations (HR)

Work habits and work behavior (Work)

Leadership (Lead)

Attitude toward job (Atti)

Temperament (Temp)

Other individual personality and behavioral characteristics (Other)

The additional characteristics found in Volume II but not in Volume I justify the many asterisks used when comparing rank of additional education needed with importance on the job.

For community colleges<sup>2</sup> the discussion is divided into 2 sections—personal characteristics in which coordinators especially need additional education or training, and those not needing as much additional education or training. To show this degree of need, a comparison is made between the coordinators' need estimates and what employers consider important for their supervisors.

One final remark. The extremely high average for all 52 personal characteristics indicates that the coordinators do not think they have urgent need for additional training. As explained on the instruction sheet of the questionnaire (page 99), 9 means little or no additional training; 1 a very substantial amount. The mean ranges from 6.91 to 8.16 for the characteristics. In contrast, the mean score shown on pages 163 and 164 for the subject areas ranges from 4.01 to 7.55.



<sup>1.</sup> See pages 99 to 105 in Volume I for details.

<sup>2.</sup> See Tables A29 and A30 on pages 165 to 169, the Appendix. Table A29 shows the complete list of 52 characteristic entries categorized by area, ranking of need, and per cent of respondents who showed much need and little need for each entry. Table A30 lists the 52 entries from greatest to least need determined by mean score.

Important Characteristics Needing Most Training. Listed below is the table that compares the upper 50 per cent of the ranked 52 personal characteristics to the upper 50 per cent of the ranked 29 characteristics. Included are the 20 perconal characteristics that can be classified as those in which coordinators especially need additional training or education. 2

Characteristics	Area Code	Ranking of Additional Education Neededa	Importance Ranking <sup>b</sup>
Memory	MENTAL	1	*
Attention to details	WORK	3 4	14
Patience	TEMP	4	*
Ability to take constructive			•
criticism	HR	6	9
Ability to analyze	MENTAL	7	*
Willingness to abide by		_	3.0
regulations	WORK	7	10
Thinking quickly	MENTAL	10	<del>*</del>
Control of temper	TEMP	12	*
Accuracy	WORK	13	
Tolerance	TEMP	13	*
Alertness	MENTAL	15	*
Tactfulness	HR	16	13
Willingness to take orders	WORK	18	*
Willingness to take construc-			v
tive criticism	OTHER	19	*
Ability to apply knowledge	MENTAL	20	11
Aggressiveness	VITOM	21	*
Outgoing - sociable	HR	21	*
Ability to organize	LEAD	23	*
Congeniality	HR	214	*
Get people to work well	LEAD	24	*

- a. Only the upper 50% of the 52 personal characteristics are included.
- b. Only the upper 50% of the 29 personal characteristics are included.
- \* Entry isn't found in the list that employers considered.

A study of these 20 characteristics reveals that 5 of the 8 Mental Ability characteristics and all 3 of the 3 Temperament characteristics are included—same number shown for the high school list. Also included are 2 of the 4 Leadership entries, 4 of the 7 Human Relations group, and 4 of the 6 Work Habit classification. On the other hand, only 1 characteristic relating to Motivation, 1 to "Other" and none from Attitude Toward Job appear in the above list.

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<sup>1.</sup> See Importance column ("Employers About Supervisors), pp. 31 and 32, Volume I.

<sup>2.</sup> The Washington list also includes 20 characteristics--18 found in the national list, plus Application to the Task and Enthusiasm (see Tables A31 and A32 on pages 170 to 172.

<sup>3.</sup> For classification of characteristics see pages 103 and 104, in the Appendix, for details.

Important Characteristics Needing Less Training. The characteristics in which the coordinators need less additional training are determined by 2 factors—those characteristics still considered most important by businessmen and at the same time those that require the least additional training by coordinators. In other words, the characteristics discussed here are those that fall in the upper 50 percentile of the list businessmen consider most important and at the same time fall in the lower 50 percentile of the list coordinators believe they need the least training in.2

The following table shows this comparison. 3

Characteristic	Area Code	Ranking of Additional Education Neededa	Importance Ranking <sup>b</sup>
Perseverance Application to the task	MOTIV ATTI	28 29	* *
Ability to talk easily with people Ambition Determination Desire to help others	HR MOTIV MOTIV LEAD	30 31 34 34	* * *
Willingness to work on own Initiative Positive Attitude Loyalty Showing an interest in job Enthusiasm	WORK OTHER OTHER WORK	36 37 39 41 42 43	* 5 15 4 * 7
Ability to get along with people Understanding meaning work Pride in doing work well Willingness assume respons Dependability Sincerity Honesty	MOTIV	43 45 46 46 50 50 52	* 6 3 2 8 1

a. Only the lower 50% of the 52 personal characteristics are included. b. Only the upper 50% of the 29 personal characteristics are included.



<sup>\*</sup> Entry isn't found in the list that employers considered.

<sup>1.</sup> See importance column headed "Employers about Supervisors" on pages 31 and 32 in Volume I.

<sup>2.</sup> See Table A30 on pages 168 and 169, the Appendix.

<sup>3.</sup> The Washington list also contains 19 characteristics--17 found in the national list, plus Ability to Apply Knowledge and Willingness to Take Constructive Criticism. Only the national list includes Application to the Task and Enthusiasm. See Tables A33, A32, and A30 on pages 173, 171, and 168 for details.

The 19 characteristics listed fall in 6 of the 8 possible categories --namely, Motivation, Human Relations, Work Habits, Leadership, Attitude Toward Job, and Other Characteristics--with emphasis in the areas of Motivation and those classified as "Other"; these 2 categories account for 10 of the 19 entries. Less emphasis is shown in the other groupings. Also, all entries relating to Mental Ability and Temperament are excluded.

# Degree of Preparation in General D. E. Teaching Matters

The only remaining community college results from the questionnaire that yield data for this chapter concern the relative degree of need that coordinators experience for additional education in general distributive education teaching matters. These include 4 types--coordinators' skills, guidance, teaching with projects, and designing individual projects.

The respondents indicated their need by encircling 1 number among number choices ranging from 1 through 9. As mentioned previously, 9 means little or no additional education or training needed; 1 means need for a very substantial amount of education or training.

As Table A34 on pg. 174 indicates, average (mean) for community colleges is 6.0 or higher. In other words, all coordinators as a group believe they are fairly well prepared in all 4 teaching areas. The same table also shows that community college coordinators believe themselves best prepared in coordinating skills and guidance. The other 2 categories—designing individual projects and teaching with projects—fall in third and fourth place, respectively, but still approximate each other (6.3 vs. 6.0) for mean score.

Also, the last 2 pairs of columns on page 174 show that a substantial majority of the coordinators believe themselves very well equipped in coordinating skills and guidance. On the other hand, at least 13 per cent feel very poorly equipped in the other 2 teaching areas.

### Conclusions

1. Coordinators devote an unusually greater number of hours to salesmanship than to 11 other skills and knowledge areas that businessmen consider important and say their supervisory personnel are inadequately prepared in. Of these 12 subject areas, coordinators spend



<sup>1.</sup> The Washington figures rank the same as the national figures but have a lower (mean) average for degree of preparation. Also, Washington coordinators don't think they are as well equipped in teaching with projects as their national counterparts. Furthermore, the Washington respondents show a higher percentage for very poorly equipped in coordinating skills and designing individual projects. See Table A35 on page 175 in the Appendix for details.

on the average 36 hours on Salesmanship, 15 hours on Business Arithmetic, and 10 hours on group discussion in their distributive education programs. Each of the remaining llareas--all considered important--receive 6 hours or less in the entire program.

- 2. Coordinators believe they are fairly well prepared in most of the 67 tested subject areas for the following reasons:
  - a. Not one of the areas considered distributive education fall below a mean average of 5.0 on a 1-through-9-point scale. ("1" means respondent believed he needed a very substantial amount of additional education or training; "9" very little or none.)
  - b. Coordinators believe they especially need additional education in only 12 of the 67 subjects. And only 2 of these 12 (Listening and Observing and Report Writing) are included in the list of most important subjects in Volume I.
  - c. While they list only 12 areas they especially need additional education, these same teachers indicate 24 subjects that businessmen consider important for supervisors but that the coordinators believe they need the least additional training. Of these 24 entries, 15 of them fall in 3 areas--Human Relations; Communications; and Business Organization, Procedure, and Management.
- 3. Coordinators believe they need even less additional education or training in personal characteristics than in skills and knowledge subjects. The characteristics that need the most emphasis include a large proportion of those that fall under the classification of Mental Ability, Temperament, Human Relations, and Work Mabits; nothing relating to Attitude Toward Job appears in this list. On the other hand, the characteristics that require less additional training do not include any entry relating to Mental Ability and Temperament mentioned above.
- 4. Coordinators, as a group, believe they are fairly well prepared in coordinating skills, guidance, teaching with projects, and designing individual projects-especially in the first 2.



## CONCLUSIONS AND RECOMMENDATIONS

Two principal conclusions can be drawn from this study:

- 1. In the time available to most distributive education programs, both high school and community college distributive education graduates can be adequately prepared in those subjects which are most important to them on the job.
- 2. Neither high school nor community college teacher-coordinators feel any great need for additional training in the subjects or personal characteristics which they believe belong in the distributive education classroom.

The majority of teacher-coordinators in both high schools and community colleges are spreading themselves too thin by including far too many subjects in their distributive education programs. In addition, some teachers are putting too much emphasis on certain subjects (such as Salesmanship) while they are not spending enough time on others (such as Human Relations and some phases of Communication).

Designers of distributive education programs should concentrate especially on distributive education areas that businessmen consider important and on those personal characteristics they can best develop in the classroom. And for those subjects that belong in the distributive education curriculum but not in the distributive education classroom (these are listed on pages 21 and 53), teachers from other disciplines should teach them.

Teacher-coordinators consider themselves fairly well prepared in most distributive education subject areas they teach-especially those skills and knowledge that businessmen say are important in marketing and distribution jobs. Also, they believe themselves adequately prepared in general distributive education teaching matters (such as coordinating skills and designing individual projects).

Based upon these conclusions, it is recommended:

- 1. Curriculum designers should make every effort to involve teachers from other disciplines (such as Mathematics and English) in teaching certain subjects that are important to distributive education graduates.
- 2. The distributive education curriculum in each state should be reviewed with a view toward putting the appropriate emphasis and time (as shown in this study) on those distributive education subjects which are best taught in the distributive education classroom.



<sup>1.</sup> See Table 3 (pp. 22 - 23) and Table 11 (pp. 48 - 49).

3. Eventually some formal arrangement needs to be made with employers involved in cooperative programs to supervise the development of those personal characteristics best handled on the job. But, in the meantime, these characteristics should continue to be developed in the classroom whenever possible.



## APPENDIX CONTENTS

		Page
	Questionnaires	
Exhibit 1	Questionnaire to Distributive Education Teacher-Coordinators (concerning place and time to teach material)	91
Exhibit 2	Questionnaire to Distributive Education Teacher-Coordinators (concerning preparedness of coordinators)	
	Tables for both High Schools and Community Colleges	
Table Al	Comparison of Background of Coordinators in High Schools and Community Colleges (for all states except Washington)	106
Table A2	Comparison of Background of Coordinators in High Schools and Community Colleges (for all states except Washington)	108
Table A3	Comparison of Background of Coordinators in High Schools and Community Colleges (for Washington State only)	110
Table A4	Coordinators' College Majors (for all states except Washington)	112
Table A5	Coordinators' College Majors (for Washington State only)	115
Table A6	Coordinators' College Minors (for all states except Washington)	117
Table A7	Coordinators' College Minors (for Washington State only)	120
	Tables for High Schools	
Table A8	Total Class Hours Devoted to Subject in the High School Distributive Education Program (for all states except Washington)	122
Table A9	Total Class Hours Devoted to Subject in the High School Distributive Education Program (for Washington State only) .	124
Table AlO	High School Coordinators' Perceived Need for Additional Education by Subject (for Washington State only)	126
Table All	High School Coordinators' Perceived Need for Additional Education by Subject (for all states except Washington)	129
Table Al2	Importance (According to Employers of Non-supervisors) of Areas in which Coordinators Say They Especially Need Additional Education (High Schools in Washington State only)	134
Table Al3	Importance (According to Employers of Non-supervisors) of Areas in which Coordinators Say They Do Not Need as much Additional Education (High Schools in Washington State only)  88	135



# Appendix Contents (continued)

			Page
Table	A14	High School Coordinators' Perceived Need for Additional Education in Each Subject (for all states except Washington).	. 136
Table	A15	High School Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for all states except Washington)	<b>. 1</b> 38
Table	A16	High School Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for all states except Washington)	, 140
Table	Al7	Importance (According to Employers of Non-supervisors) of Personal Characteristics in which Coordinators Say They Especially Need Additional Education (High Schools in Washington State only)	<b>. 1</b> 43
Table	A18	High School Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for Washington State only)	144
Table	<b>A1</b> 9	Importance (According to Employers of Non-supervisors) of Personal Characteristics in which Coordinators Say They Do Not Need as Much Additional Education (High Schools for Washington State only)	, 146
Table	A20	High School Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (for all states except Washington)	. 147
Table		High School Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (for Washington State only)	<b>. 1</b> 48
		Tables for Community Colleges	
Table		Total Class Hours Devoted to Subject in the Community College Distributive Education Program (for all states except Washington)	<b>1</b> 49
Table	A23	Total Class Hours Devoted to Subject in the Community College Distributive Education Program (for Washington State only)	151
Table		Community College Coordinators' Perceived Need for Additional Education by Subject (for all states except Washington)	<b>1</b> 53
Table	A25	Importance (According to Employers of Supervisors) of Areas in which Coordinators Say They Especially Need Additional Education (Community Colleges in Washington State only) • • •	158



# Appendix Contents (continued)

		<u>P</u>	age
Table	A26	Importance (According to Employers of Supervisors) of Areas in which Coordinators Say They Do Not Need as Much Additional Education (community colleges in Washington State only)	159
Table	A27	Community College Coordinators' Perceived Need for Additional Education by Subject (Washington State only)	160
Table	A28	Community College Coordinators' Perceived Need for Additional Education by Subject (for all states except Washington)	163
Table	A29	Community College Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for all states except Washington)	165
Table	A30	Community College Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for all states except Washington)	168
Table	A31	Importance (According to Employers of Supervisors) of Personal Characteristics in which Coordinators Say They Especially Need More Education (community colleges in Washington State only)	170
Table	A32	Community College Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (for Washington State only)	171
Table	A33	Importance (According to Employers of Supervisors) of Personal Characteristics in which Coordinators Say They Do Not Need Much More Education (community colleges in Washington State only)	
Table	A34	Community College Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (for all states except Washington)	174
Table	A35	Community College Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (for Washington State only)	175



#### EXHIBIT 1

### QUESTIONNAIRE TO DISTRIBUTIVE EDUCATION TEACHER COORDINATORS

#### Instructions:

The purpose of this questionnaire is to obtain your professional judgment about places where specific subjects and personal characteristics should be taught or developed and the number of classroom hours it takes to teach them.

The following five steps explain how to fill out the pages relating to specific subjects:

- 1. If you think a subject listed does not belong in a D. E. curriculum at all, then simply make an "X" in Column A and go to the next subject.
- 2. Some subjects may be D.E. subjects, but should be taught outside the D. E. classroom; for example, you may feel that grammar is a D. E. subject, but should be taught in a language-development class. Therefore, for each subject, if you do not select Column A, make an "X" in one or more of Columns B, C, D, and E to indicate those places where you think the subject should be taught.
- 3. If you have not selected Column B for a subject (in other words, if you think it should not be taught in the D. E. classroom), go on to the next subject.
- 4. But if you have selected Column B, indicating that at least one place where the subject should be taught is the D. E. classroom, then proceed to Column F. If you have never taught the subject, just make an "X" in Column F and go to the next subject.
- 5. But if you have taught or are presently teaching the subject, then you are ready for the principal business of this questionnaire which is to record your professional judgment of the approximate total number of classroom hours you should spend getting your average students to each of the following levels of achievement (listed in ascending order of difficulty):
  - G. General notion of the subject. (Recognize it.)
  - H. Sufficient knowledge to be able to talk intelligently about the subject and understand instructions in it. (Recall something about it.)
  - I. Sufficient knowledge to be able to understand the subject thoroughly and apply or use it without assistance in the usual beginning work situation. (Recognize, recall and apply it.)

CAUTION: Our definition requires that it takes at least as many hours to get the students to Level "H" as it does to get them to Level "G" and that it takes at least as many hours to get them to "I" as to "H". Therefore, each number you enter must be equal to or greater than the number to its left. If for some reason it doesn't make sense to you to record hours for a certain level, you may leave that level blank.

A B C D E F G H I

For example: Item... X X 5 10 25



Please base your judgments on all average students as a group; don't think of a single "typical" or "representative" student. Because classes vary from one year to the next, you may want to think of the average group over the last 2 or 3 years. Curriculum planning, of course, must also consider both better-than-average students and below-average students; but adaptations for these students can be made from the average group.

Don't worry about whether the hours you list agree or disagree with the actual number of hours in your present program. This isn't any kind of a test and there aren't any right answers. We just want your professional judgment concerning how many hours it would take to get the average student to each level for the subjects listed.

Remember that whatever you say will be absolutely confidential. There will be no way that individuals can be identified with particular answers. In fact, after we get your questionnaire back and low it in, we ourselves will no longer be able to tell which individual is associated with particular answers.

You probably teach some of the subjects in combination rather than separately; if so, do the best you can to consider each entry individually.

Remember, Columns G, H, and I may be equal or they may increase from left to right but they may not decrease.

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a. Writing			1						}
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2. Report writing					-				
3. Spelling								\ <u></u>	
4. Penmanship						<u> </u>			<del></del>
5. Punctuation									!
b. Oral presentation	_								<del></del>
1. Group discussion									
2. Prepared talks									
3. Person-to-percon									
discussion									
c. Basic grammar	_	-							
d. Listening and									
observing		ļ				1			
e. Reading									
1. Reading for							İ		
comprehension		i					1		
2. Reading fast							1		
f. Use of the telephone									



									<u></u>	
									Classroom	
		D. E. Subject and					t needs t	0		
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		in D.E.	class	job	D.E.		taught	notion	about	apply
		curric-			class		it		it	on
		ulum				7			73-3	job
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Mat	hematics	(								
		1								}
a.	Basic arithmetic								ĺ	
	(addition, subtrac-								{	
	tion, division, mul-									
	tiplication)									
b.										
	(discounts, mark-ups,	ł								
_	mark-downs) Mental arithmetic									
c.										
	capability Making change				-					
đ.										
e.	Statistics									
20:	Statistics									
Hum	an Relations									
1100	AII HETACIONS								!	
a.	Ability to get others									
u,	to work effectively									
h.	Ability to work with									
٠,	others	<b>!</b>								
c.	Fair treatment of									
••	minorities (customers									
	and employees)									
d.	Ability to deal with									
. •	superiors									
e.	<b>~</b>									
•	-									
Mar	keting									
	<del></del>									
a.	Salesmanship									
b.	Marketing research									
c.	Advertising									
d.										
	(display, contests,									
	tradeshows)									
e.	Inventory records									
f.	Fashion trends									
g.	Buying									
h.	Transportation									
i.	Stockkeeping and	l l		Į	ł					
	inventory control				_					
j.	Credit									
k.	World trade									<del></del>
1.	Channels of dis-			į	I	ļ	1			



		<del> </del>					D. E.	Classro	or hours
	ļ	D.	E. S	ubject	and		stude	nt needs	to
				be taug		ł	acqui	re:	
	A	В	С	D	Е	F	Ĝ	Н	1
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	in D.E.	class		D.E.	1	taught	notion	I .	apply
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	ulum			101033		1 - "	1	1-	011 (150)
	(X)	(x)	(X)	(x)	(x)	(x)	(hrs)	(hrs)	(hrs)
Financial Records	\_\\^/_	(^/	14/	<del>  \^/</del> -	(A)	(~/	11137	<u></u>	
Financial Records				<b>{</b>	Į.		ļ		
a. Bookkeeping				İ	ĺ				ľ
b. Reading financial									
statements					[	1			
c. Accounting (more than								-	
bookkeeping and									
reading financial									
statements)									
statements/					-		<u> </u>		
Machines of Business									
a. Typewriter									
b. Dictaphone	_								
c. Calculator									
d. Adding machine									
e. Cash register	-								
f. Weighing or measuring									
devices			- 1						
Economics									
		1							
a. Techniques and stra-		- 1		į					
tegy for setting			1		1			İ	
prices					1				
b. Free enterprise									<b></b>
system in general	_ 1	l	1	_ 1	_ 1			i	
c. National income									
d. Economic cycles									
e. Business locations									
f. Forecasting									
g. Seasonal fluctuations				~					
h. Money and banking									
(banking services and	I	ŀ	l	1			ļ	I	
activities, role of	- !	1	l	ļ	{				
money, etc.)	ł	j	1	- 1	I			1	
i. Sources of funds for								<del></del>	
starting and operating	1	1	- 1		ŀ				
a business	1	İ	- 1		İ			}	
j. Role of Profit		-		<del>-  </del>			<del>-  </del>	<del></del>	
0. 7070 0. 1.0110	<del></del>	<del></del>	<u>-</u>		<u> </u>				



		D.E. Subject and should be taught:					D. E. Classroom hours student needs to acquire:					
	A	В	C	D	E	F	G	Н	I			
	Doesn't	in	on	in	other	I have	gen-	ability	ability			
	belong	D.E.	the	non-		never		to talk	to			
	in D.E.	class	.job	D.E.		taught	notion		apply			
	curric-	-	000	class		it		it	on job			
	ulum		1									
	(X)	(X)	(X)	(X)	(X)	(X)	(hrs)	(hrs)	(hrs)			
Other Knowledge			` '	` '			-					
a. Knowledge of data		!										
processing												
b. Insurance								<u> </u>				
c. Local trade laws								L				
d. Business law								<u> </u>				
e. Federal laws and								1	1			
regulations						ļ		<u> </u>				
f. Unions												
g. Cultural development												
(appreciation of lit-									l			
erature, art, and								]	Į.			
music)								<u> </u>				
Business Organization,												
Procedure and Management				1								
				!								
a. Type of business				ì								
organization												
b. Business procedures												
(orders, invoices,												
deliveries, etc.)												
c. Internal organization				ł								
relationships												
d. Supervision	_				-							
e. Labor-Management												
relationships						<u> </u>		<del>'</del>				

Thank you for completing the section on subject areas. The next area is personal characteristics. In this section, which is much easier, there are no hour judgments required; instead, please underline for each item one or more of the following places where you think the characteristic can be taught or developed:

- 1. In the D. E. classroom
- 2. In the DECA program
- 3. On-the-job
- 4. Classroom other than D. E. in high school or community college
- 5. Other (if other, please specify)

In addition, encircle only one of the places you already underlined to indicate the one place where you think each personal characteristic can best be taught or developed.

For example, if you think a personal characteristic can be taught or developed only on-the-job, you should underline and encircle Number 3 for that entry; but if you think it can also be taught in D. E. classroom and in DECA program, underline

1, 2, and 3 and encircle one of those as follows:

D. E. DECA On-the-job Non D.E. Other; (please classroom program classroom specify)

Example:

D. E. DECA On-the-job Non D.E. Other; (please specify)

PERSONAL CHARACTERISTICS	D. E. classroom	DECA program	on-the-job	Non-D.E. classroom	Other;(pleas specify)
Motivation or caring about job a. knowing one's goal in life. b. willingness to do routine work. c. willingness to do extra assignments d. pride in doin; work well. e. enthusiasm. f. aggressiveness. g. ambition. h. determination.		2	3	4	5555555
Mental Ability a. reasoning logically. b. imagination. c. quickness to grasp meaning. d. ability to apply knowledge e. ability to analyze f. alertness. g. thinking quickly. h. memory.	. 1	2	3	1; 1; 1; 14	55555
Human Relations  a. ability to take constructive criticism  b. friendliness  c. tactfulness  d. ability to get along with people (deal with people customers, employees)  e. ability to talk easily with people  f. congeniality (pleasing personality) g. outgoingsociable		2	3	14 24 24 24 24	555555
Work Habits and Work Behavior  a. willingness to abide by regulations b. loyalty c. attention to details. d. willingness to work on own e. accuracy f. willing to take orders		2	3	. 4 . 4	5





PTRSONAL CHARACTERISTICS (continued)	D. E. classroom	DECA program	On-the-job	Non-D.E. classroom	Other;(please specify)
Leadership a. willingness to assume responsibility b. get people to work well c. desire to help others d. ability to organize	1	2 , .	3	4 4	5
Attitude Toward Job  a. understanding what work  means  b. showing interest in  job  c. application to the task				1	
Temperament  a. patience  b. control of temper  c. tolerance	. 1	2	3	. ц . ц	5 5
other individual personality and behavioral characteristics a. positive attitude   (optimism) b. dependability c. safety consciousness d. smile e. hand shake f. self-confidence g. sincerity h. initiative j. willingness to take constructive criticism	1	2 2 2 2 2 2 2 2	3	4	55 55 55 55
k. appearance	. 1	2	3	4	5 5





There is one final request. Please give us answers to the following questions. Remember, this information will remain completely confidential.

1	Of all D. E. students that you now have in class, wh	hat pe:	ercentage of	the	total
	fall within each of the following grade-point groups	s:			

Above-average group Average group Below-average group Total

In questions 2 through 6 encircle your answer(s).

- 2. Size of city or town in which you are located?
  - 1. Under 2,500
- 5. 25,000 to 49,999 6. 50,000 to 99,999
- 2. 2,500 to 4,999
- 3. 5,000 to 9,999
- 7. 100,000 and over
- 4, 10,000 to 24,999
- 3. Please encircle one or both of the following teaching responsibilities you have:
  - 1. Preparatory
  - 2. Cooperative
- 4. Type of school in which you teach:
  - 1. High School
  - 2. Community College (junior college)
  - 3. Vocational Technical
- 5. Sex
  - 1. Male
  - 2. Female
- 6. Your age group:
  - 1. 20 to 30

  - 2. 31 to 40 3. 41 to 50
  - 4. 51 to 60
  - 5. 61 or older
- 7. If time and inclination permit, you are encouraged to jot down your thinking on any part of this questionnaire -- or on anything relating to the research project. Either use the limited space below or add an extra sheet. And, thank you most sincerely for your cooperation.



#### EXHIBIT 2

# QUESTIONNAIRE TO DISTRIBUTIVE EDUCATION TEACHER COORDINATORS

### Instructions:

The purpose of this questionnaire is to obtain your professional judgment concerning how much additional education or training you think you need or should have or would like to have to teach or develop in your distributive education students the subjects and personal characteristics listed below.

Please follow carefully the three steps below:

- 1. If you do not consider that a particular entry is a distributive education subject or should not be taught or developed in the distributive education classroom, just make an "x" in the first column and go to the next entry.
- 2. But if you do not put an "x" in the first column, then fill in the total numbers of hours you usually devote to that subject in your D. E. program. If none, fill in a zero.
- 3. Next, please indicate the additional education or training you believe you need to adequately teach or develop that subject in your D. E. students, by circling just one of the 9 numbers in the third column. If you circle Number 1, it will indicate that you believe you need a very substantial amount of additional education or training. If you circle Number 9, it will indicate that you believe you need very little or none. The numbers in between 1 and 9 indicate varying degrees of need for additional education. Thus, if you believe you are half way between needing a very substantial amount and needing little or none in a subject, you would circle Number 5 for that subject. The more education or training you believe you need, the lower the number you should circle; and the less, the higher the number you should circle.

As soon as you have considered each subject and personal characteristic, please return the completed form to us in the envelope provided. Remember that we will hold all your enswers in absolute confidence.



	not a D.E.	total class	1	addi	tion	al e	duca	tion	nee	ded	1
	subject or	P .									
		usually devote	nee	ed					ne	ed	1
		to this subj.	ve						а	very	ł
		in your D.E.	•	ttle					รบ	bsta	ntial
		program		none	ļ.		_		81	ount	
Quantitations	(x)	(hrs)	9	8	7	6	5	4	3	2_	1
Communications		1							1		
- 11-141		İ		i				[ ]	İ		
a. Writing			9	8	7	6	5	4	3	2	1
1. Letter writing	<del></del>	<del> </del>	9	ष्ट	7	6	5	4	3	2	1
2. Report writing	<del></del>		9	8	7	6	5	4	3	2	1
3. Spelling			9	8	7	6	5	4	3	2	1
4. Penmanship			9	8	7	6	5	4	3	2	1
5. Punctuation		<del>                                     </del>	12	<b>⊢</b> ٽ⊢	-'-			-	<u> </u>		
b. Oral presentation			9	8	7	6	5	4	3	5	1
1. Group discussion	<del></del>	<del> </del>	9	8	7	6	5		3	2	1
2. Prepared talks			171	⊢ٽ⊢	-'-	<u> </u>	$\vdash$		<u> </u>		
3. Person-to-person			9	8	7	6	5	4	3	2	1
discussion		<del>                                     </del>	9	8	7	6	5	4	3	2	1
c. Basic grammar	<u> </u>	<del> </del>	9	8	7	6	5	4	3	2	1
d. Listening and observing.		ļ	13	$\vdash$				┝╌┤			
e. Reading	Ì										
1. Reading for		1	9	8	7	6	5	4	3	2	1
comprehension	L	<del>                                      </del>	9	8	7	6	5	4	3	2	1
2. Reading fast	L	<b></b>		8	7	6	5		3	2	1
f. Use of the telephone			9	0		-			7		
Mathematics				[							
a. Basic arithmetic (addi-	İ			1							
tion, subtraction,	1			8	7	6	5	4	3	2	1
multiplication, division)	<u> </u>		9	0	-	$\vdash$	1				
b. Business arithmetic		į	į –	1							
(discounts, mark-ups,				8	7	6	5	4	3	2	1
mark-downs)		<u> </u>	9	<u> </u>	7	-	1				
c. Mental arithmetic			1	0		6	اے	4	3	2	1
capability	<u></u>		9	8	7	6	5 5	4-4	3	2	1
d. Making change		<del></del>	9	8	7	6		1. 3	3	2	1
e. Higher mathematics	<u></u>		9	8	1	6	5 5	4	3	2	1
f, Statistics			9	C	7	6	1	-	┝╌┤	-	
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Human Relations						1 1					
	1			1							
a. Ability to get others to	İ		_	8	7	6	ا	4	3	2	1
work effectively	<u> </u>		9	18	7	0	5	-	- 3-1		
b. Ability to work with	1	}	_	0	1 -	6	ا	4	3	2	1
others	1		9	8	7	0	5	4	3	ے	
c. Fair treatment of			1								
minorities (customers	1		1_		_		ا  ا	4	٦		,
and employees)			9	8	7	6	- 5		_ 3	2	11
d. Ability to deal with					_	1	ا ا	,		_	1
superiors			9	8	7	6	5		3	2	1
e. Business etiquette			9	8	1	6	5	4	3		<u> </u>

100

Second test   Second test		not a D. E.	total class	1	ad	ditio	onal	educ	atio	n ne	edec	1
Should not be taught to this sub.   1			hours you							_		1
Name   Set		should not		1								<b></b>
In a Dissocome   In your Program   In your Pro					-							- 1
Cassroom   Frogram   Cassroom   Frogram   Cassroom				1								1
### Salesmanship.		1			_	e 7	-	_	<del></del>			<del>'`</del>
a. Salesmanship. b. Marketing research c. Advertising c. Advertising d. Sales promotion (display, contests, tradeshows). c. Inventory records d. Fashion trends Buying D. Transportation D. Sales promotion	Marketing	(x)	(hrs)	12	<del>                                     </del>		-					
a. Selesmanship. b. Marketing research. c. Advertising. c. Advertising are search. c. Advertising research. c. Advertising research. c. Advertising research. d. Sales promotion (display, contests, tradeshows). d. Sales promotion (display, contests, tradeshows). d. Tensportation. d. Fashion trends.		1	<b>!</b>	10	l a	7	6	5	4	3	2	1
b. Marketing research. c. Advertising. d. Sales promotion (display, contests, tradeshows). e. Inventory records. f. Fashion trends. D. Hyring.					1							
C. Advertising, contests, tradeshows).  e. Inventory records.  f. Fashion trends.  g. Ruying						7			4	3	2	1
contests, tradeshows).  e. Inventory records.  f. Fashion trends.  g. Buying	c. Advertising			+	<del>                                     </del>	<del>                                     </del>						
contests, reacesons, eq. Inventory records	d. Sales promotion (display,			9	8	7	6	5	4	3		
Section   Sect	contests, tradesnows/				8	7	6	5	4			
S. Huying   S. H	e. inventory records				8	7	6	5	4	3	2	1
Transportation												
Stockkeeping and inventory control   9 8 7 6 5 4 3 2 1				9	8	7	6	5	4	3	5	1
inventory control.  j. Credit  k. World trade  l. Channels of distribution.  Financial Records  a. Bookkeeping  b. Reading financial statements.  c. Accounting (more than be proceed by the process of the pro									1.			
J. Credit	inventory control											
Note   Note						<u> </u>			I			L
Channels of distribution.	k World trade						•		1 .			
Sources of funds for starting and operating a business   Sources of funds for starting a business   Source	1. Channels of distribution			9	1 8	17	6	5	14	1 3	12	
a. Bookkeeping b. Reading financial statements c. Accounting (more than ocokkeeping and reading financial statements)  Machines of Business  a. Typewriter b. Dictaphone c. Calculator d. Adding machine e. Cash register f. Weighing or measuring devices  b. Free enterprise system in general c. National income d. Economic cycles b. Free enterprise system in general c. National income d. Economic cycles e. Business locations f. Forecasting g. Seasonal fluctuations h. Money and banking (banking services and activities, role of money, etc.) i. Sources of funds for starting and operating a business  9 8 7 6 5 4 3 2 1  2 1  2 1  3 2 1  4 3 2 1  4 3 2 1  5 4 3 2 1  5 5 4 3 2 1  5 5 4 3 2 1  5 5 6 5 4 3 2 1  6 5 7 6 5 4 3 2 1  6 5 7 6 5 4 3 2 1  6 5 7 6 5 4 3 2 1  7 7 6 5 4 3 2 1  7 8 7 6 5 4 3 2 1  7 8 8 7 6 5 4 3 2 1  7 8 8 7 6 5 4 3 2 1  8 9 8 7 6 5 4 3 2 1  8 9 8 7 6 5 4 3 2 1  8 9 8 7 6 5 4 3 2 1  8 9 8 7 6 5 4 3 2 1  8 9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  1 9 8 7 6 5 4 3 2 1  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 0			-	1	1		ļ	İ			!
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cookkeeping and reading financial statements)       9       8       7       6       5       4       3       2       1         Machines of Business       9       8       7       6       5       4       3       2       1         a. Typewriter	c. Accounting (more than	İ			1	1	İ		į		•	
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a. Typewriter. b. Dictaphone. c. Calculator. d. Adding machine. e. Cash register. f. Weighing or measuring devices.  a. Techniques and strategy for setting prices. b. Free enterprise system in general. c. National income. d. Economic cycles. e. Business locations. f. Forecasting. seasonal fluctuations. h. Money and banking (banking services and activities, role of money, etc.) i. Sources of funds for starting and operating a business.	Machines of Business		1									İ
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d. Adding machine e. Cash register f. Weighing or measuring devices  a. Techniques and strategy for setting prices b. Free enterprise system in general c. National income d. Economic cycles e. Business locations f. Forecasting g. Seasonal fluctuations h. Money and banking (banking services and activities, role of money, etc.) i. Sources of funds for starting and operating a business			1			7	6	5_	14	3	5	1
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f. Weighing or measuring devices	d. Adding machine			19	8	7	6	5	4	3	5	<u>  1</u>
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Economics  a. Techniques and strategy for setting prices	devices			9	8	17	16	15	4	13	12	<del>                                     </del>
a. Techniques and strategy for setting prices  b. Free enterprise system in general  c. National income  d. Economic cycles  e. Business locations  f. Forecasting  g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business  a. Techniques and strategy  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  1 1 2 1 2 1  1 2 1 3 2 1  1 3 2 1  1 3 2 1  2 1 3 2 1  3 3 2 1  4 3 2 1  5 5 6 5 6 5 7 6 5 7 7 7 7 7 7 7 7 7 7 7	464166511111						1					
a. Techniques and strategy for setting prices  b. Free enterprise system in general  c. National income  d. Economic cycles  e. Business locations  f. Forecasting  g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business  a. Techniques and strategy  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  1 1 2 1 2 1  1 2 1 3 2 1  1 3 2 1  1 3 2 1  2 1 3 2 1  3 3 2 1  4 3 2 1  5 5 6 5 6 5 7 6 5 7 7 7 7 7 7 7 7 7 7 7	Economics	-			1					1	1	
for setting prices  b. Free enterprise system     in general  c. National income  d. Economic cycles  e. Business locations  f. Forecasting  g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business  b. Free enterprise system  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1				1		ļ			
b. Free enterprise system in general	a. Techniques and strategy			1,	ه ا	7	1 4	5	1,	12	10	1
in general	for setting prices			_ }	<del>/   -                                  </del>	+-'-	<del></del> -	+-		+-	+-	<del> </del>
in general		<b>!</b>		- 1,	, l a	7	16	5	14	3	12	1
c. National income			<del></del>						14			
d. Economic cycles									14			1
e. Business locations  f. Forecasting  g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business  9 8 7 6 5 4 3 2 1  9 8 7 6 5 4 3 2 1			<del></del>						14			1
f. Forecasting  g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business  g. Seasonal fluctuations			<del></del>						4		2	1
g. Seasonal fluctuations  h. Money and banking (banking services and activities, role of money, etc.)  i. Sources of funds for starting and operating a business	f. Forecasting		+						14		5	1
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ties, role of money, etc.)  i. Sources of funds for starting and operating a business	h. Money and banking (bank-	1			1		1	1	i			
i. Sources of funds for starting and operating a business	ing services and activi-	1		- 1	9   8	7	6	5	4	3	2	1
starting and operating a business	ties, role of money, etc.)		+	+		<del></del>		1		T		
business	i. Sources of funds for							İ	1	}		
ousiness				į.	9   8	7	- [6					
1. Kote or brotte							16	15	14	ز	5	1
	1. Rote of brotte	<u> </u>										

	not a D.E.	total class		ado	litic	onal	educ	cati	on ne	eded	
		hours you	additional education needed					1			
	subject or	usually devote	nee	ьd					need	ì	ŀ
	should not	1 · 1	ve	-					a ve	ery	i
	be taught	to this subj.		ttle						stant	ial
	in a D.E.	in your D.E.		none	2				amou		]
	classroom	program			71	61	5 [	4 1	3	2 1	1
Other knowledge	(x)	(hrs)	9	0		J		-	-		
a. Knowledge of data			9	8	7	6	5	4	3	:	1
processing		ļ	9	8	7	-6	5	4	31	<u>.</u>	1
b. Insurance			9	8	7	6	5	4	3	2	1
c. Local trade laws	ļ		9	8	7	6	5	4	3	2	1
d. Business law			-	Ť							
e. Federal laws and	ŀ		9	8	7	6	5	4	3	ટ	1
regulations			9	हैं	7	6	5	14	3	2	Î l
f. Unions			<u> </u>	<u> </u>	<u> </u>						
g. Cultural development				1		l	1	] :			
(appreciation of litera-	1	]	9	8	7	6	5	4	3	5	1
ture, art and music)			-	<del></del>	<u> </u>		1				
Business Organization,				I			}		!		1 1
Procedure and Management			}						ļ	]	
		i	1	1	1	1	1	1			
a. Type of business		}	1		i _	1	1 -	4	١,	_	1
organization		<u> </u>	9	8	7_	6	5	14	3	ξ_	<u> </u>
b. Business procedures							1	1		İ	
(orders, invoices,	1	İ			i _		1_	1.	1		1,
deliveries, etc.)	1		9	3	7	6	5	4	3	1	1
c. Internal organization			_		i _	1	1_	14	1 .	1	1,
relationships			9	8	7	16	5		1 3	1 2	11
d. Supervision			9	8	7	6	5	14	3	8	<del>                                     </del>
e. Labor-Management				^	_	1	٦	1,		~	· 1
relationships	!		9	-8	17	16	5	l:	3_	12	<u> 1                                   </u>
2223233333								<del></del> <del>.</del>	<del></del> -	i	

### General D. E. Teaching Matters

d. Guidance.....

a.	Coordinating skills	
ъ,	Designing individual projects	
c.	Teaching with projects	

Ver	ry we	211	very poorly					
	ippe		equipped					
9	8	7	6	5	4	3	2	1
9	8	7	6	5	<b>1</b> 4	3	2_	1
9	8	7	6	5	4	3	2	1
9	8	7	6	5	4	3	2	1
9	8	7	6	5	4	3_	2	1

Thank you for giving us the necessary information concerning subjects and skills. Now please turn your attention to the personal characteristics listed below. For these characteristics, please think about how well equipped you believe you are right now to teach or develop them in your D. E. students -- not about how much additional equipped or training you would need. As before, for every entry, circle one of the ) figures to indicate how well equipped you feel you are now to teach or nevelop each characteristic. The better equipped you are, the higher the number.

	Very	well					Ver	y poo:	rly
	equip						equ.	ipped	
	9 1	8	7	6	5_	4	_3	2	1
Personal Characteristics									
							1		
1. Motivation or caring about job					_	,			,
a. Knowing one's goal in life	9	8	7	6	5	<u>ц</u>	3	2	$\frac{1}{1}$
b. Willingness to do routine work	9	8	7	6	>	4	3		<u> </u>
c. Willingness to do extra	_		١ _		_	Į,	2	2	1
assignments	9_	8	7	6	5	4	3	2	1
d. Pride in doing work well	9	8	7	5	5	4	3	2	1
e. Enthusiasm	9	8	7	6	5	4	3	2	1
f. Aggreessiveness	9	8	7	6	5		3		$\frac{1}{1}$
g. Ambition	9	8	7	6	5	4	3	2	1
h. Determination	9	8	7	6	5		3	1	
i. Perseverance	9	8	7	6	5	4	3	2	1
			1	1					
2. Mental ability	_	1	_	1	_	4	,	2	,
a. Reasoning logically	9	8	7	6	5	4	3	2	1
b. Imagination	9	8	7	6	5	4	3	2	1-1-
c. Quickness to grasp meaning	9	8	7	6	5	<u> </u>		12	1
d. Ability to apply knowledge	9	8	7	6	5	4	3		
e. Ability to analyze	9	8	7_	6	5	4	3_	2	1
f. Alertness	9	8	7	6	5	4	3	2	1
g. Thinking quickly	9	8	7	6	5	4	3	2	1
h. Memory	9	8	7	6	5	4	3	2	1
• • • • • • • • • • • • • • • • • • • •			1	}	1			1	1
3. Human relations	l	1		1	}	l	}	1	
a. Ability to take constructive			1	1		١.	_		
criticism	9_	8_	7	6	5	4	3	2	<u> </u>
b. Friendliness	9	8	7	6	5	4	3	2	1
c. Tactfulness	9	8	7	6	5	4	3	2	1
d. Ability to get along with people				1	1	l		1	
(deal with people, customers,	1	1	1		l _	١,	_		1, 1
employees)	9	8	7_	6	5	4	3	2	1
e. Ability to talk easily with		T		1.	1	1.	į į		1 .
people	9	8_	7	6	5_	4	3	2	1
f. Congeniality (pleasing							l _		
personality)	9_	8_	17_	6	5	4	3	2	1
g. Outgoingsociable	9	8	7	6	5	4	3	2	1
					1	1		j	
4. Work habits and work behavior			1		!		1		
a. Willingness to abide by	1		1	1		١,			,
regulations	9	8	17_	6	5	4	3	2	$\frac{1}{1}$
b. Loyalty	9	8	7	6	5	4	3	2	
c. Attention to details	9	8	7	6	5	4	3	2	1
d. Willingness to work on own	ý	8	7	6	5	4	3	2	1
e. Accuracy	9	8	7	6	5	4	3	2	1
f. Willing to take orders	9	8	7	6	5	14	3	2	1
·									
5. Leadership									
a. Willingness to assume	1	1_			_			1_	,
responsibility	9	8	7	6	5	4	1 3	5	1
b. Get people to work well	9	8	7	<u> </u>	5	14	3	2	1
c. Desire to help others	9	8	7	16	5	14	3	2	1
d. Ability to organize	9	8	7	6	1 5	4	3	] S	1

Personal Characteristics (contt.)	Very well Very poor equipped equipped 9 8 7 6 5 4 3 2					- 1			
Personal Characteristics (con c.)				ر آ		, , , , , , , , , , , , , , , , , , ,	<u> </u>	_=	
<ul><li>6. Attitude toward job</li><li>a. Understanding what work means</li><li>b. Showing interest in job</li><li>c. Application to the task</li></ul>	9 9 9	8 8 8	7 7 7	6 6 6	5 5 5	4 4 4	3 3 3	2 2 2	1 1 1
7. Temperament a. Patience b. Control of temper c. Tolerance	9 9 9	8 8 8	7 7 7	6 6 6	5 5 5	4 4 4	3 3 3	2	1 1 1
8. Other individual personality and behavioral characteristics a. Positive attitude (optimism) b. Dependability c. Safety consciousness d. Smile e. Hand shake f. Self-confidence g. Sincerity h. Initiative i. Manners j. Willingness to take constructive criticism k. Appearance l. Honesty  Just one final request. Please give us and the state of t	9 9 9 9 9 9 9 9	8 8 8 8 8 8 8 8 8	7 7 7 7 7 7 7 7	6 6 6 6 6 6	5 5 5 5 5 5 5 5	1; 1; 1; 1; 1; 1; 1; 1; 1; 1; 1; 1; 1; 1	3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
can better interpret the findings. And reconfidential.	emembe:	r thi	s ini	ormat:	ion w	lll r	emain	comp	Terest
1. Type of school in which you received your education (check one or more):  Vocational-technical institute  2-year community college  4-year college or university  Military responsibility related to (check one)  Distribution  Supervision  Other; if so, please specify									
2. Highest degree held (check one):  Less than 2 years post high sc  AA  BA  Masters  Doctorate	hool								
3. College major(s):			_mino:	r(s):					
4. Last calendar year in which you enrolle vocational education job:	ed in	a for	- mal c	•					
5. Number of years you have been profess as a practioner or a teacher.	<u>ionall</u>	y con	necte	d with	h D.	E			either
6. Number of years you have been teaching		E							



7.	Type or types of school in which you teach:  High School  Community College (or junior college)  Vocational technical  4-year university  Other; if so, please specify
8.	Your age group: 20 to 3031 to 4041 to 5051 to 6061 or older
9.	Years of experience in a distributive occupation before employment in distributive education (consider 2000 hours equivalent to one year):

10. If time and inclination permit, you're encouraged to jot down anything you wish about this questionnaire, major problems confronting you in the D. E. field, or suggestions to improve the present D. E. picture. And thank you sincerely for your cooperation.



Table Al Comparison of Background of Coordinators in High Schools and Community Colleges

Coordinators' perception of distributive education students' ability

	High School (per cent)	Comm. College (per cent)2
Above average group Average group Below average group	17.7 51.7 30.6 100.0 %	22.6 55.1 22.3 100.0 %

### Size of town in which they are located

	High School (per cent)	Comm. College (per cent)
Under 2,500	5.5	1.9
2,500 to 4,999	6.4	3.8
5,000 to 9,999	12.7	9.4
10,000 to 24,999	20.6	13.2
25,000 to 49,999	15.5	22.6
50,000 to 99,999	14.3	18.9
100,000 and over	25.0	30.2

### Their type(s) of teaching responsibilities

	High School (per cent)	Comm. College (per cent)
Preparatory	66.5	63.0
Cooperative	91.0	71.3

### Their Sex

	High School (per cent)	Comm. College (per cent)
Male Female	82.1 17.9 100.0 %	91.6 8.4 100.0 %

Total teacher-coordinators responding 314.
 Total teacher-coordinators responding 114.

### Table Al (continued)

### Their age

	High School (per cent)	Comm. College (per cent)
20 to 30 31 to 40 41 to 50 51 to 60 61 or older	33.7 30.2 24.4 8.9 2.8 100.0 %	23.0 35.0 28.0 14.0 0.0

Table A2 Comparison of Background of Coordinators in High Schools and Community Colleges

(Total teacher-coordinators responding: High Schls, 314; Comm. Coll. 114)

Type of school in which coordinators received their education

	High School (per cent)	(per cent)
Vocational-technical institute	0.0 3.7 7 <sup>1</sup> ; .2	1.8 9.1 65.9
Military responsibility related to: distribution	5.7 11.4 5.0* 100.0 %	4.3 15.9 3.0** 100.0 %

### Highest degree coordinator held

(Termo	High School (per cent)	(per cent)
Туре	_	0.0
Less than 2 years post high school A. A	0.3 0.3	0.9
B. A	52 <b>.</b> 0 46 <b>.</b> 4	32.2 64.3
Masters	1.0	2.6
Doctorate	100.0 %	100.0 %

## Last calendar year coordinator was enrolled in a formal class related to his vocational education job

Year													High School (per cent)	Comm. College (per cent)
1001													•	
1968				•	•	• (	•	• •	•	•	•	•	25 <b>.</b> 0	32 <b>.7</b> 29 <b>.1</b>
1967			• •	•	•	• (	•	•	•	•	٥	•	39.5	
1966	• • •	• •	• •	•	•	•	•	•	•	•	_	•	14.9 6.1	19.1 3.6
1965	• • •	• •	• •	•	•	•	• (	•	•	•	•	•		1.8
1964		• •	• •	•	•	•	• (	• •	•	•	•	•	3.7	13.7
1963	or earli	ler	• •	•	•	•	• (	• •	•	•	•	•	10.8 100.0 %	100.0 %

\* Includes: Air Force Intelligence, clerical and administration, D. E. major with over 4,000 hours of selling experience, Bonsutle Drama School, graduate school.

\*\* Includes: Business school, graduate school, on-the-job training, business education, radioman school, Louisville Conservatory of Music, entertainment (music), teachers' college, exploratory, vocational school, law school, communications.



### Table A2 (continued)

Number of years coordinator has been professionally connected with distributive education either as a practitioner or teacher

				High School (years)	Comm. College (years)
Mid-point (median) Maximum number of years	• •	•	•	5 37 1	5 30 <b>1</b>

# Number of years coordinator has actually been teaching distributive education

	High School	Comm. College
•	(years)	(years)
Mid-point (median)	3 37 1	3 22 1

### Age of coordinator

Age Group	High School (per cent)	Comm. College (per cent)
20 to 30	30.8 30.8 22.0 14.4 2.0 100.0 %	35.4 28.3 21.2 14.2 0.9 100.0 %

Years of experience in a distributive occupation before coordinator's employment in distributive education (consider 2000 hrs. equivalent to one year)

					High School (per cent)	Comm. College (per cent)
Mid-point (median)	• •	•	•	•	37 1	7 37 1



### For Washington State Only

Table A3 Comparison of Background of Coordinators in High Schools and Community Colleges

(Total teacher-coordinators responding: High Schls, 54; Comm. Coll., 21)
Type of school in which coordinators received their education

	Kigh School (per cent)	Comm. College (per cent)
Vocational-technical institute	_	3.3
2-year community college	, 2.8	10.0
4-year college or university		70.0
distribution	2.8	6.7
supervision	12.5	10.0
*Other	9.7	0
	100.0 %	100.0 %

### Highest degree coordinator holds

Туре	(per cent)	Comm. College (per cent)
Less than 2 years post high school A.A	. 68.6 . 31.4	0 0 40 55 5 100.0 %

Last calendar year coordinator was enrolled in a formal class related to his vocational education job

	High School	Comm. College
Year	(per cent)	(per cent)
		20. 7
1968	23.1	38.1
1967	40.2	23.8
1966		14.3
1965		14.3
	• •	9.5
1964		0
1963 or earlier	11.7	200 0 d
	<del>100.0</del> %	100.0 %

<sup>\*</sup> Includes: department store, manufacturing plant, outside salesman, office manager, work experience, administration, military police.



### Table A3 (continued)

Number of years coordinator has been professionally connected with distributive education either as a practitioner or teacher

	High School	Comm. College
	(years)	(years)
Mid-point (median)	4	6
Maximum number of years		20
Minimum number of years	•	1

## Number of years coordinator has actually been teaching distributive education

	High School (years)	Comm. College (years)
Mid-point (median)	. 3	4
Maximum number of years		11
Minimum number of years		1

### Age of coordinator

	High School	Comm. College
Age Group	(per cent)	(per cent)
20 to 30	26.9	15
31 to 40	32.7	25
41 to 50	23.1	40
51 to 60	15.4	15
61 or over	1.9 100.0 %	5 100.0 %

# Years of experience in a distributive occupation before coordinator's employment in distributive education (consider 2000 hrs. equivalent to one year)

	High School (per cent)	Comm. College (per cent)
Mid-point (median)	5 40 <b>1</b>	10 35 3



Table A4 Coordinators College Majors (Total teacher-coordinators responding: High Schls, 314; Comm. Coll. 114)

Major

Field	(per ce	nt)
	H. S.	c. c.
Generally more appropriate for D. E.	87.5*	102.7*
Business administration Distributive education Other** Marketing Economics Accounting Retailing Commerce Industrial education Vocational education Sales management Business management Merchandising and selling Advertising Insurance Supervision Labor Bookkeeping Commercial law Banking	26.3 14.1 11.6 11.4 5.1 4.4 2.4 1.7 1.3 1.0 1.0 0.7 0.7 0.7 0.3 0.3 0.3	30.0 23.6 1.1 16.4 4.5 12.7 2.7 0.0 0.0 2.7 0.0 0.9 3.6 0.0 0.0 0.0 0.0
(continued on next page)		

<sup>1.</sup> To give some meaning to the many majors that the coordinators mentioned, a state supervisor of distributive education separated the total list into 2 categories. The first category includes those that seem generally more appropriate majors for a coordinator's background. The second category, those that generally don't seem applicable to a coordinator's background.



<sup>\*</sup> This is a total of all the percentages for the majors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 major; (2) the percentage for each entry reflects the percentage of total respondents who listed that major.

<sup>\*\*</sup> Includes: Administration and Supervision of Vocational Education, Agricultural Education, Broadcasting, Business Economics, Clothing, Hotel-Motel-Restaurant Management, Institution Management, Personnel Management, Public Speaking and Debate, Salesmanship, Textiles.

### Table A4 (continued)

	Major (per c	
Field	H. S.	<u>c. c.</u>
Finance Personnel Industrial management Distribution Marketing and merchandising Transportation	0.3 0.3 0.0 0.0 0.0	0.9 0.0 0.0 0.9 0.9 1.8
Not generally applicable to D. E.	68.7*	41.6*
Business education Other** Social studies Education English History Social science Guidance and counseling Industrial arts Secretarial science Physical education Sociology Secondary education Geology School administration Mathematics Home economics Agriculture Psychology Vocational agriculture Science	24.9 4.8 4.7 4.0 3.7 3.4 2.0 1.7 1.3 1.0 1.0 1.0 1.0 0.7 0.7 0.7 0.7	16.4 0.9 0.9 2.7 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Political science Chemistry (continued on n	0.7	0.0

<sup>\*</sup> This is a total of all the percentages for the majors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 major; (2) the percentage for each entry reflects the percentage of total respondents who listed that major.



<sup>\*\*</sup> Includes: Agricultural Economics, Agricultural Education, Aviation, Biological Science, Curriculum & Instruction, Engineering, Higher Education.

### Table A4 (continued)

Major (per cent) C. C. H. S. Field 0.0 0.7 Elementary education 0.0 0.7 Geography 0.0 0.7 French 0.0 0.7 Government 0.0 0.7 Biology 1.8 Administration 0.3 0.9 0.3 Law 0.9 0.3 Art 0.9 0.3 Administrative education 0.0 0.3 Homemaking 0.0 0.3 Educational administration 0.0 0.3 German 0.0 0.3 Office education 0.9 0.0 Philosophy 0.9

World history

0.0

### For Washington State Only

Coordinators' College Majors 1 Table A5 (Total teacher-coordinators responding: High Schls, 54; Comm. Coll., 21) (per cent)

Field	(ber ce	110 )
	H. S.	c.c.
Generally more appropriate for D. E.	<u>76.0*</u>	100.2*
Business administration	36.0	33.3
Marketing	6.0	9.5
Economics	18.0	9.5
Personnel	. 0.0	9.5
Distributive education	6.0	4.8
Distribution	0.0	4.8
Management	0.0	4.8
Transportation	0.0	4.8
Merchandising and selling	0.0	4.8
Retailing	0.0	4.8
Industrial management	0.0	4.8
Accounting	2.0	0.0
Business management	2.0	0.0
Finance	2.0	0.0
Marketing and merchandising	2.0	0.0
Commerce	2.0	0.0
Policy and administration	0.0	4.8
Not generally applicable to D. E.	<u>60.0*</u>	61.2*
Education	2.0	14.3
American history	0.0	9.5
(continued on next p	age)	

(continued on next bake)

115

<sup>1.</sup> To give some meaning to the many majors that the coordinators mentioned, a state supervisor of distributive education separated the total list into 2 categories. The first category includes those that seem generally more appropriate for a coordinator's background. The second category, those that generally don't seem applicable to a coordinator's background.

This is a total of all the percentages for the majors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 major; (2) the percentage for each entry reflects the percentage of total respondents who listed that major.

### (continued) Table A5

Major (per cent) Field H. S. 9.5 4.8 0.0 Agriculture 18.0 Business education\* 4.8 0.0 Music 4.8 0.0 Nautical science 4.8 0.0 4.8 0.0 Office occupation 4.8 0.0 Industrial psychology 0.0 2.0 Administration 0.0 2.0 Mathematics 0.0 2.0 History 0.0 6.0 Home economics 0.0 2.0 English 6.0 0.0 Physical education 0.0 4.0 Social studies 0,0 2.0 Industrial arts 0.0 4.0 Social science 0.0 2.0 Liberal arts Ō.Ô 2.0 Physics 0.0 2.0 Speech 0.0 2.0 Forestry 0.0 2.0

Health

Classified as non-business because this area stresses typing, shorthand, and other secretarial skills.

Table A6 Coordinators' College Minors

(Total teacher-coordinators responding: High Schls, 314; Comm. Coll. 114)

Minor

(per cent)

	<u>H. S.</u>	C. C.
Contributes significantly to a D. E. coordinator's job	112.4*	92.5*
Economics English Social studies Education Business administration Other** Social science Distributive education Accounting Mathematics Psychology Business education Marketing Speech Sociology	16.5 11.3 10.9 10.5 10.1 6.9 6.8 5.2 4.8 4.0 4.0 2.8 2.8 2.0 1.6	16.0 5.3 5.3 5.3 11.7 1.0 3.2 7.4 2.1 3.2 5.3 6.4 9.6 3.0 0.0
Guidance and counseling	1.0	0.0

(continued on next page)

<sup>1.</sup> To give some meaning to the many minors that the coordinators mentioned, a state supervisor of distributive education separated the total list into 2 categories. The first category includes those that contribute significantly to a distributive education coordinator's job. The second category, those that don't contribute significantly to a distributive education coordinator's job.

<sup>\*</sup> This is a total of all the percentages for the minors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 minor; (2) the percentage for each entry reflects the percentage of total respondents who listed that minor.

<sup>\*\*</sup> Includes: Hotel-Motel-Restaurant Management, Industrial Management, Operations Research, Personnel Management, Statistics, Textiles, Typewriter.

### Table A6 (continued)

Minor

Field	(per co	
	H. S.	<u>c. c.</u>
Retailing	1.2	2.1
Lav	1.2	0.0
Industrial education	1.2	1.1
Finance	0.8	1.1
Art	0.8	2.1
Secretarial science	0.8	0.0
Merchandising and selling	0.4	0.0
Government	0.4	0.0
Commerce	0.4	0.0
Business engineering	0.4	0.0
Advertising	0.4	1.1
Data processing	0.4	0.0
Real Estate	0.4	0.0
Language arts	0.4	0.0
Public relations	0.4	0.0
Personnel administration	0.4	0.0
Business law	0.4	0.0
Does not contribute significantly to a	28 7¥	20.7*
D. E. coordinator's job	<u>38.7</u> *	20.7*
Other**	9.1	1.4
History	5.6	
Physical education	5.6 4.4	5.3 1.1
Science	3.2	2.1
Philosophy	2.4	0.0
Dramatics	1.2	0.0
Fine arts	1.2	0.0
Spanish	1.2	1.1
Political science	0.8	4.3
Physics	0.8	0.0
(continued on next page)		

<sup>\*</sup> This is a total of all the percentages for the minors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 minor; (2) the percentage for each entry reflects the percentage of total respondents who listed that minor.



<sup>\*\*</sup> Includes: Adult Education, Agricultural Engineering, Biological Science, Driver Education, Engineering, Latin, Natural Science, Nutrition, Plant Pathology, Social Education, Zoology.

### Table A6 (continued)

(per cent)

Field	H. S.	<u>c. c.</u>
French Biology Language American history Industrial arts Elementary education	0.8 0.8 0.8 0.4 0.4 0.4	0.0 0.0 2.1 1.1 0.0 1.1
Health Agriculture Earth science Special education Elementary teaching German Safety Educational A. in guidance School administration	0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 1.1
World history Liberal arts Geography	0.8 0.4	0.0



119



### For Washington State Only

Table A7 Coordinators' College Minors

(Total teacher-coordinators responding: High Schls, 54; Comm. Coll., 21)

Minor

(per cent)

Field	(per	cent)
	H. S.	<u>C. C.</u>
Contributes significantly to a D. E.		
coordinator's job	<u>81.5</u> *	143.5*
English	20.4	6.2
Economics	14.3	18.8
Sociology	12.3	18.8
Education	8.2	18.8
Business education	6,1	0.0
Mathematics	4.1	12.5
Psychology	4.1	6.2
Business administration	2.0	6.2
Social studies	2.0	0.0
Accounting	2.0	18.8
Social science	2.0	0.0
Guidance and counseling	2.0	6.2
Government	2.0	0.0
Management	0.0	6.2
Personnel	0.0	6.2
Industrial management	0.0	6.2
Labor relations	0.0	6.2
Policy and administration	0.0	6.2



<sup>1.</sup> To give some meaning to the many minors that the coordinators mentioned, a state supervisor of distributive education separated the total list into 2 categories. The first category includes those that contribute significantly to a distributive education coordinator's job. The second category, those that don't contribute significantly to a distributive education coordinator's job.

<sup>\*</sup> This is a total of all the percentages for the minors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 minor; (2) the percentage for each entry reflects the percentage of total respondents who listed that minor.

### Table A7 (continued)

Minor

(per cent) Field H. S. Does not contribute significantly to a D. E. 52.5\* coordinator's job 14.3 0.0 History 0.0 4.1 Political science 0.0 4.1 Music 6.2 2.0 Geography 6.2 2.0 American history 0.0 2.0 Elementary education 6.2 2.0 Science 0.0 2.0 Physical education 0.0 2.0 Chemistry 0.0 2.0 Industrial arts 0.0 2.0 English literature 0.0 2.0 Linguistics 0.0 2.0 Forestry 0.0 2.0 Botany 0.0 2.0 Electronics 0.0 2.0 Health 0.0 2.0 French 0.0 2.0 Biology 6.2 0.0

Dramatics

This is a total of all the percentages for the minors in this particular category. Also, this total isn't 100% for the following reasons: (1) some coordinators mentioned more than 1 minor; (2) the percentage for each entry reflects the percentage of total respondents who listed that minor.

Total Class Hours Devoted to Subject in the Table A8 High School Distributive Education Program (Median column gives mid-point of respondents' estimated hours)

Range No. of Respon-Max. Min. Median (hrs) (hre) dents (hrs) Subject Salesmanship Group discussion Advertising Sales promotion Prepared talks Person-to-person discussion Basic arithmetic Business arithmetic Ability to work with others Marketing research Buying Channels of distribution Ability to get others to work effectively Stockkeeping and inventory control Credit Free enterprise system in general Type of business organization Business procedures 3 Use of the telephone Business etiquette Cash register Business law Letter writing Report writing Spelling Basic grammar Listening and observing Reading for comprehension Mental arithmetic capability 

Making change

<sup>1.</sup> For tabulation on IBM cards, all figures had to be 2 digits or less. As a result, "99" shown here really means 99 cr more hours.

### Table A8 (continued)

### Range

	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respondents
Subject	(ms)	(1115)	(111.5)	denos
Fair treatment of minorities	2	99	0	250
Ability to deal with superiors	2	99	0	257
Inventory records	2	90	0	278
Fashion trends	2	<del>9</del> 0	0	273
Transportation	2	80	0	261
Bookkeeping	2	99	0	160
Techniques and strategy for				
setting prices	2	99	0	273
Business locations	2	90	0	281
Money and banking	2	99	0	262
Sources of funds for starting and				
operating a business	2	99	0	279
Role of profit	2	99	0	279
Insurance	2	99	0	246
Federal laws and regulations	2	99	0	261
Internal organization relations	2	99	0	263
Supervision	2	99	0	259
Labor-management relations	2	99	0	259
Penmanship	1	36	0	121
Punctuation	1	72	0	<b>1</b> 23
Statistics	1	15	0	111
World trade	1	20	0	229
Reading financial statements	1 1	90	0	201
Accounting	1	90	0	97
Adding machine	1	50	0	171.
Weighing or measuring devices	1	50	0	2 <u>1</u> 9
National income	1	20	0	244
Economic cycles	1	25	0	250
Forecasting	1	20	0	240
Seasonal fluctuations	1	30	0	263
Knowledge of data processing	1	15	0	153
Local trade laws	1	20	0	257
Unions	1	25	0	249
Cultural development	1	20	0	103
Reading fast	0	99	0	84
Higher mathematics	0	5	0	6 <b>7</b>
Typewriter	0	25	0	59 55
Dictaphone	0	25	0	55 25
Calculator	0	50	0	95

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Table A9 Total Class Hours Devoted to Subject in the
High School Distributive Education Program
(Median column gives mid-point of respondents estimated hours)

		Range		
Subject	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respondents
Salesmanship Group discussion	30 20	99 <sup>1</sup> 99	10 0	46 <b>3</b> 8
Prepared talks	10	99	0	38 33
Person-to-person discussion	10 10	99 50	0	33 18
Reading for comprehension Business arithmetic	10	99	3	44
Advertising	10	90	4	49 10
Sales promotion	10 6	72 99	2	49 38
Basic arithmetic Ability to work with others	6	72	ì	39
Listening and observing		99	0	27 36
Mental arithmetic capability	5 5 5	36 30	0 1	36 44
Making change Ability to get others to work	,	50	•	
effectively	5	72	0	4 <u>1</u>
Fair treatment of minorities	5	36 36	0	33 46
Marketing research Buying	5	90	Ö	43
Credit	5	30	1	48 48
Channels of distribution	5	60 99	1	10
Cash register Free enterprise system in general	5 5 5 5 5 5 5 4	<b>5</b> 6	ì	47
Letter writing	4	20	0	35 32
Report writing	4 4	40 36	0	32 39
Ability to deal with superiors Business etiquette	4	36	1	40
Inventory records	4	<b>50</b>	0	49 45
Fashion trends	<u>4</u>	20 50	0	46
Stockkeeping and inventory control Bookkeeping	4	36	1	44
Money and banking	4	28	1	46

<sup>1.</sup> For tabulation on IBM cards, all figures had to be 2 digits or less.
As a result, "99" shown here really means 99 or more hours.

### Table A9 (continued)

### Range

Subject	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respondents
Role of profit	4	50	1	41
Business law	ħ	36	0	32
Type of business organization	4	30	0	42
Business procedures	4	<b>7</b> 2	0	42
Use of the telephone	3 3	25	0	40
Transportation	3	99	0	44
Techniques and strategy for				
setting prices	3	<b>3</b> 8	0	24
Business locations	3 3 2	36	0	48
Spelling		36	0	20
Basic grammar	2	<b>3</b> 6	0	15
Statistics	2	30	0	22
World trade	2	15	0	41
Reading financial statements	2	10	0	44
National income	2	10	0	37
Economic cycles	2	10	0	41
Seasonal fluctuations	2	10	0	40
Sources of funds for starting				
and operating a business	2	28	0	38
Insurance	2	20	Q	46
Local trade laws	2	10	0	45
Federal laws and regulations	2	20	0	38
Unions	2	20	0	38
Cultural development	2	20	0	38 38 34
Internal organization relations	2	20	0	14
Supervision	2	20	0	47
Labor-management relations	2	20	O	47
Punctuation	1	36	0	18
Adding machine	1	25	0	11
Weighing or measuring devices	1	99	0	13
Forecasting	1	15	0	<b>3</b> 8
Knowledge of data processing	1	15	0	42
Penmanship	0	10	0	16
Reading fast	0	10	0	10
Higher mathematics	0	30	0	14
Accounting	0	10	0	43
Typewriter	0	2	0	26
Dictaphone	0	0	0	39
Calculator	0	10	0	19

# For Washington State Only

Table Alo High School Coordinators' Perceived Need for Additional Education by Subject (Average scores - based on scale ranging from 1 through 9)

	Ranking by Average		
Subject	ددعا	(from greatest to least need)	Number of Responses
Knowledge of data processing	Т	t, 4.7	36
World trade	ณ	0, r. v	35
Forecasting	ന	5.47	3.5
Local trade laws	শ	5.53	, <del>, , , , , , , , , , , , , , , , , , </del>
Marketing research	ŧ٧	5.60	45,
Federal laws and regulations	9	5.62	35.
Fashion trends	<b>~</b>	5.76	17
Statistics	_	•	17
Techniques and strategy for			<u>-</u>
setting prices	δ	5.97	13
Dictaphone	10		<b>(</b>
Transportation	7	20.9	9
Buying	12	90.9	3
Cultural development	<b>5</b> 7	6.08	S. CX
Advertising	7.	6.10	13
Business law	15	6.12	30
Higher mathematics	<b>1</b> 6	6.20	9
Sources of funds for starting and			
operating a business	17	6.22	36
National income	18	6.23	, &
Insurance	19	6.26	7 1
Sales promotion	19	6.26	24
Stockkeeping and inventory control	な	6.29	<b>21</b>
Inventory records	22	6.43	<b>ካ</b> ነ
Money and banking	23	ካተ <b>•</b> 9	71
Penmanship	†∂	6.50	य



# Table AlO (continued)

Subject	Ranking by Average  Med Score  (from greatest to least need)	(from greatest to least need)	Munber of Responses
Seasonal fluctuations	25	6.51	39
Group discussion	56	₹ <b>.</b> °	33
Unions	27	6.56	<b>%</b>
Salesmanship	27	6.56	<b>1,5</b>
Labor-management relations	82	6.61	02 7
Reading fast	30	8.9	13
Prepared talks	30	6.62	39
Bookkeeping	32	6.65	<b>L</b> †
Credit	33	99*9	<b>†</b> †
Economic cycles	ゕ゙	69.9	36
Adding machine	ま	69.9	<b>-</b>
Basic grammar	36	6.76	17
Supervision	37	11.9	다. **
Accounting	38	6.79	<b>4</b>
Internal organization relations	39	6.85	13
Reading financial statements	36	6.85	8
Listening and observing	Et t	6.87	31
Business procedures	Q!	88 <b>°</b> 9	36
Use of the telephone	<del>د</del> ا	<b>9.</b> 90	හ
Business locations	<b>†</b> †	6,91	<b>†</b> †
Person-to-person discussion	<b>1</b>	<b>T</b>	₹
Punctuation	45	₹ <b>.</b> 9	17
Reading for comprehension	<b>L</b> †	6.95	13
Role of profit	84	7.02	89
Fair treatment of minorities	61	7.03	35
Spelling	50	2.06	18
Weighing or measuring devices	77	7.07	01.
	52	7.10	₩ 1
Business arithmetic	72	7.10	04

(continued)	
Le A10 (	
Tabl	

Average Number of Responses	7.14 29 7.18 44	7.20 40 7.22 39 7.24 41	7.29 7.33 7.41 7.50	21. 86. 87.
Ranking by Average Need Score (from greatest to least need) to	55 55	56 57 58 59	84884	665
Subject	Report writing Channels of distribution Free enterprise system in	general Type of business organization Ability to deal with superiors Cash register Ability to get others to work	effectively Ability to work with others Letter writing Calculator	Mental arithmetic capability Typewriter

Table All High School Coordinators' Perceived Need for Additional Education by Subject (Rank of average (mean) scores - based on scale ranging from 1 through 9)

	Ranking by Average (Mean) Need Score (from greatest to			Rumber of
Subject	least need)	(per cent)	(per cent)	Responses
Communications				
a. Writing	•			301
1. Letter writing		•	ر• ۲۵ ه	183
2. Report writing	Ltt	•	0.00	150 150
3. Spelling	53	•	•	120
4. Penmanship	, , ,	13.8	۲. د. برو	25.6
5. Punctuation	43	•	•	777
b. Oral presentation	•	(	ł	300
1. Group discussion	8E.	10.2		(0)
2. Prepared talks	40	11.5		(TZ)
	'n 55	<b>7.</b>	0 2 C	100
	. 5 <b>6</b>	15.0		115
d. Listening and observing	45	٥ <b>.</b>		(11
e. Reading	•	(		E
1. Reading for comprehension	a 36	13.0	- 100	7
2. Reading fast	ŢŢ	19.5	•	110
f. Use of the telephone	\$	(:)	•	LT'7

<sup>.</sup> Only the per cent of respondents who encircled 1, 2, and 3.

<sup>2.</sup> Only the per cent of respondents who encircled 7, 8, and 9.

Table All (continued)

Re Sub ject	Ranking by Average  Need Emore (from greatest to least need)	Need Much (per cent)	Need Little (per cent)	Number of Responses
Mathematics				
a. Basic arithmetic (addition, subtraction, etc.) b. Business arithmetic	65	9.3	8*بك	257
downs)  c. Mental arithmetic capability	62 57	10.9	68.5 65.6	192 248
d. Making change e. Higher mathematics f. Statistics	67 4 13	26.7	82.3 36.6 48.1	17. 108 8.48
Human Relations		لا در		
<ul> <li>a. Ability to get others to</li> <li>b. Ability to work with others</li> <li>c. Fair treatment of minorities</li> <li>d. Ability to deal with superiors</li> <li>e. Business etiquette</li> </ul>	rs 52 52 59	12.8 1.8 4.11	68.5 71.5 70.4 4.07	256 244 255 253 253
Marketing				
a. Salesmanship b. Marketing research c. Advertising	35 2 11	17.7 25.6 20.2	59.4 31.5 41.1	288 254 282
contests, tradeshows)	2	21.1	4.04	285

Table All (continued)

Rei	Ranking by Average			
Subject	(from greatest to least need)	Need Much (per cent)	Weed Little (per cent)	Number of Respondents
	8°°	10.0	50.2	569
•	<b>\omega</b> (	20.0	39.6	265
g. Buying	12	<b>50.</b>	1.04	157
h. Transportation	25	& &	52.5	257
1. Stockkeeping and inventory				
control	31	8.6	? 去	276
j, Credit	31	14.3	<b>元</b> 表	<b>5</b> 80
k. World trade	m	27.1	31.2	218
1. Channels of distribution	64	9.3	62.0	273
Financial Records				
a. Bookkeeping	94	14.2	9.09	155
b. Reading Tinancial statements	24	11.1	17.1	190
• • •				
statements)	15	17.5	48.5	76
Machines of Business				
	50	15.8	7.89	22
b. Dictaphone	~ &	# 0,80 #	#6.55 8.55	9.00 5.00
d. Adding machine	1%	, o	0.00	\&
e. Cash register f. Weighing or measuring devices	<b>3</b>	8.7 14.7	≠°. 84. 7.	263 197

Table All (continued)

onomics and strategy	Ranking by Average Need Score (from greatest to least need)	Need Much (per cent)	Med Little (per cent)	Number of Responses
for setting prices	16	14.0	5* 44	563
in general	46 84	10.1	50.6	277 236
d. Economic cycles	19 13	14.0	47.3 60.1	243 273
	ဌထ ထွ	17.9	39.0 52.9	223 261
	23	13.6	52.9	257
<ul><li>1. Sources of Tunds for Starting,</li><li>Operating a business</li><li>j. Role of profit</li></ul>	n8, 27 41	13.4	51.8 58.1	268 277
Other Knowledge				
a. Knowledge of data processing b. Insurance c. Local trade laws d. Business law	1 20 6 6 1 18	# # # # # # # # # # # # # # # # # # #	23.1 47.2 36.7 46.1	147 233 228
		19.8 14.8	39.1 39.8	243 229
g. curtural development (appreciation of the arts)	30	8 8	0°6η	86

Table All (continued)

	HI	•		
Subject	(from greatest to least need)	(per cent)	Meed Lattle (per cent)	Number of
Business Organization, Procedure and Management				
a. Type of business organization	₹	8	45	263
b. Business procedures			•	,
(orders, involces, etc.)	52	۳ <b>.</b> ۵	61.2	263
c. Internal organization				
relations	37	9 <b>.</b> 8	9 <b>.</b> 92	170
d. Supervision	39	15.4	57.9	242
e. Labor-management relations	ons 21	<b>9.</b> 41	50.0	9 <del>1</del> 8

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### For High Schools in Washington Only

Table Al2 Importance (According to Employers of Non-supervisors) of Areas in which Coordinators Say They Especially Need Additional Education

Areas	Ranking by Additional Education Neededl	Importance Ranking <sup>2</sup>
Local trade laws	4	30
Federal laws and regulations	6	29
Fashion trends	7	27
Sales promotion	19	31
Stockkeeping and inventory control	21	18
Inventory records	22	22
Penmanship	24	16
Group discussion	26	50
Salesmanship	27	4
Labor-management relations	29	*
Credit	33	24



<sup>1.</sup> Only the upper 50% of the 67 skills and knowledge are included.

<sup>2.</sup> Only the upper 50% of the 62 skills and knowledge are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

### For High Schools in Washington Only

Table Al3 Importance (According to Employers of Non-supervisors) of Areas in which Coordinators Say They Do Not Need as much Additional Education

Areas	Ranking by Additional Education Needed	Importance Ranking <sup>2</sup>
Adding machine	34	25
Basic grammar	36	9 *
Supervision	37	
Internal organization relations	39	15
Listening and observing	41	2
Business procedures	42	*
Use of the telephone	43	10
Person-to-person discussion	<u>4</u> 5	5
Reading for comprehension	47	14
Role of profit	48	*
Fair treatment of minorities	49	7
Spelling	50	17
Business etiquette	52	8
Business arithmetic	52	21
Report writing	54	28
Channels of distribution	55	*
Free enterprise system in general	56	23
Type of business organization	57	*
Ability to deal with superiors	58	3 26
Cash register	59	26
Ability to get others to work		- 0
effectively	60	13
Ability to work with others	61	1
Basic arithmetic	64	21
Mental arithmetic capability	65	12
Making change	67	11

<sup>1.</sup> Only the lower 50% of the 67 skills and knowledge are included.

<sup>2.</sup> Only the upper 50% of the 62 skills and knowledge are included.

<sup>\*</sup> Entry is not found in the list that employers considered.

Table Al4 High School Coordinators' Perceived Need for
Additional Education in Each Subject
(Ranked by average scores - based on scale ranging from 1 through 9)

Subject	Ranking by Average (Mean) Need Score (from greatest to least need)	Average (Mean) (from greatest to least need)
knowledge of data processing	1	4.16
marketing research		5.28
world trade	3	5.30
higher mathematics	Ĭ4	5.37
dictaphone	5	5.52
local trade laws	6	5.58
sales promotion	2 3 4 5 6 7 8	5.65
fashion trends	8	5.67
forecasting	8	5.67
federal laws and regulations	10	5.69
advertising	11	5.70
buying	12	5.71
statistics		5.76
unions	13 14	5.84
accounting	15	5 <b>.</b> 96
techniques and strategy for	-•	
setting prices	16	<b>5.</b> 99
reading fast	17	6.09
business law	18	6.10
economic cycles	19	6.11
insurance	20	6.12
labor-management relations	21	<b>6.</b> 13
calculator	22	<b>6.</b> 20
money and banking	23	6 <b>.</b> 23
national income	24	6.24
transportation	25	6 <b>.</b> 26
basic grammar	26	<b>6.</b> 2 <b>7</b>
sources of funds for starting a	nd	
operating a business	27	<b>6.</b> 28
seasonal fluctuations	2 <b>8</b>	<b>6.</b> 29
inventory records	29	<b>6.3</b> 0
cultural development	30	<b>6.</b> 34
stockkeeping and inventory		
control	31	6.35
credit	31	6.35
penmanship	33	<b>6.</b> 36
weighing or measuring devices	34	6.37
salesmanship	35	6.39
reading for comprehension	36	6.41
internal organization relations		6.46
group discussion	38	6.51

### Table Al4 (continued)

Subject	Ranking by Average (Mean) Need Score (from greatest to least need)	Average (Mean) (from greatest to least need)
supervision	39	6.52
prepared talks	40	6.53
role of profit	41	6.55
reading financial statements	42	6.56
punctuation	43	6 <b>.57</b>
business locations	43	6.57
listening and observing	45	6 <b>.</b> 59
bookkeeping	46	6 <b>.</b> 61
report writing	47	6 <b>.</b> 64
free enterprise system in	·	
general	48	6.66
channels of distribution	49	6.70
ability to get others to work	•	•
effectively	50	6 <b>.7</b> 7
typewriter	50	6 <b>.7</b> 7
business procedures	52	6 <b>.7</b> 8
spelling	53	6.80
type of business organization	53 54	6.81
person-to-person discussion	55	6.82
letter writing	55 56	6.84
mental arithmetic capability	57	6.94
ability to work with others	58	6.95
business etiquette	59	6.96
fair treatment of minorities	60	6.97
cash register	61	6.98
business arithmetic	62	6.99
ability to deal with superiors	_	6.99
use of the telephone	64	7.20
basic arithmetic	65	7.41
adding machine	66	7.62
making change	67	7.78

Table Al5 High School Coordinators' Perceived Ability to
Teach or Develop Personal Characteristics
(Ranked by average scores - based on scale ranging from 1 through 9)

	Rank	
	(lowest to highest	
	ability to	Average
Characteristic	teach or develop)	(Mean) Score
memory	1	6.73
imagination	2 3 4 5 6	7.12
quickness to grasp meaning	3	7.13
ability to analyze	4	7.16
willingness to do routine work	5	7.17
thinking quickly		<b>7.1</b> 9
reasoning logically	<b>7</b> 8 8	7.25
attention to details	8	7.32
patience	8	7.32
ability to apply knowledge	10	7.33
alertness	11	7.36
aggressiveness	12	7.38
knowing one's goal in life	13	7.39
get people to work well	14	7.41
control of temper	14	7.41
willingness to do extra	<b>-</b> '	,, ,
_	16	7.47
assignments	16	7.47
ability to organize	18	7.52
accuracy		7.57
tolerance	19	7.57
safety consciousness	19	(•)
ability to take constructive	03	7 50
criticism	21	7.59 7.61
tactfulness	22	
perseverance	23	7.63
outgoing - sociable	23	7.63
self-confidence	23	7.63
positive attitude	26	7.64
willingness to take constructive		<b>5 5</b> 0
criticism	27	7.70
initiative	28	7.71
ambition	29	7.73
application to the task	30	7.74
congeniality	31	7.75
enthusiasm	<b>3</b> 2	7.77
determination	33 3 <sup>1</sup> 4	<b>7.</b> 78
willingness to take orders	34	7.80
smile	<b>3</b> 5	7.85
ability to talk easily with peopl		7.87
willingness to work on own	36	7.87

### Table Al5 (continued)

Characteristic	Rank (lowest to highest ability to teach or develop)	Average (Mean) Score
willingness to abide by regulations willingness to assume responsibility hand shake shewing interest in job pride in doing work well manners understanding what work means desire to help others appearance friendliness sincerity ability to get along with people loyalty dependability	38 40 41 42 44 45 46 47 47 49 50	7.88 7.93 7.98 8.00 8.00 8.03 8.04 8.05 8.08 8.08 8.11 8.13 8.15 8.49
honesty	52	U•+7

For All States Except Washington

(Rank of average (mean) scores - based on scale ranging from 1 through 9) High School Coordinators' Perceived Ability to Teach or Develop Personal Characteristics Table A16

Characteristic	Ranking of Ability (from least to greatest)	Number of Respondents	Very Poorly Equipped (per cent)	Very Well Equipped (per cent)
Motivation (Caring About Job)  a. Knowing one's goal in life  b. Willingness to do routine work  c. Willingness to do extra	<b>1</b> 2 <sup>↑</sup>	306 307	3.7	9.43 8.43
assignments d. Pride in doing work well e. Enthusiasm	38 30 30	307 308 306	1.9	
<ul><li>f. Aggressiveness</li><li>g. Ambition</li><li>h. Determination</li><li>i. Perseverence</li></ul>	4 28 18	38888 38888 38888	94444	1446F
Mental Ability  a. Reasoning logically  b. Imagination  c. Quickness to grasp meaning  d. Ability to apply knowledge	8 8 8 9	30,4 30,4 30,4	٥ ٣ ٣ ٣ ٣	
	100mH	302 305 305 305 305 305	,	67.69 67.69 6.05 6.05

Only the per cent of respondents who encircled 1, 2, and 3.

<sup>?.</sup> Only the per cent of respondents who encircled 7, 8, and 9.

### Table A16 (continued)

	Ranking of Ability (from least to greatest)	Number of Respondents	Very Poorly Equipped (per cent)	Very Well Equipped (per cent
<b>5</b> 1		305 306	6.1. 6.0	72.2 85.2
d. Ability to get along with people e. Ability to talk easily with people f. Congeniality (pleasing personality) g. Outgoing - sociable	45 16 16	% <del>*</del>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	83.3 81.5 81.5 75.9
Work Habits and Work Behavior  a. Willingness to abide by regulations b. Loyalty c. Attention to details d. Willingness to work on own e. Accuracy	40 15 39 16	306 305 305 305		88.77 77.88 85.58
f. Willingness to take orders Leadership a. Willingness to assume responsibility b. Get people to work well c. Desire to help others d. Ability to organize		30 30 30 4 30 4 30 4 30 4 30 4 30 4 30	H HMHH	87.0 81.5 85.2 85.2
Attitude Toward Job a. Understanding what work means b. Showing interest in job c. Application to the task	46 34 31	310 299 299	8.8.6.	88.89 8.89 8.89 8.89

Table Al6 (continued)

Very Well Equipped (per cent)	69.8 81.1 86.8	88.7 78.8 77.8 88.1 92.5 1.4 1.5 1.5 1.5 1.5
Wery Poorly Equipped (per cent)	665 644	
Number of Respondents	300 299 299	300 300 300 300 300 300 300 300 300 300
Ranking of Ability (from least to greatest)	07 ಸ್ಥೆ ನಿನ	ልንንድ ቴሪቴ ድህ ቴር ፕ
Characteristic	Temperament a. Patience b. Control of temper c. Tolerance	Other Personality, Behavioral Characteristics a. Positive attitude (optimism) b. Dependability c. Safety consciousness d. Smile e. Hand shake f. Self confidence g. Sincerity h. Initiative i. Manners j. Willingness to take constructive criticism k. Appearance l. Honesty

### High Schools for Washington State Only

Table Al7 Importance (According to Employers of Non-supervisors) of Personal Characteristics in which Coordinators Say They Especially Need Additional Education

Characteristics	Area Code	Ranking by Additional Education Neededl	Importance Ranking <sup>2</sup>
Memory	MENTAL	1 3	*
Thinking quickly	MENTAL	3	*
Willingness to do		•	•
routine work	MOTIV	4	9 *
Aggressiveness	MOTIV	4	*
Ability to analyze	MENTAL	6	*
Ability to take			8
constructive criticism	HR	6	0 *
Alertness	MENTAL	8	
Patience	TEMP	10	*
Tactfulness	HR	11	13
Ability to apply			<b>- 1</b> .
knowledge	MENTAL	12	14
Willingness to take			•
orders	WORK	13	*
Attention to details	WORK	15	6
Outgoing - sociable	HR	16	*
Accuracy	WORK	16	*
Perseverence	MOTIV	18	*
Get people to work well	LEAD	18	*
Ability to organize	LEAD	18	*
Congeniality	HR	23	*
Control of temper	TEMP	24	*
Willingness to take constructive criticism	OTHER	24	*
COURCINGOTAS CLICICISM	ATIMI	_	



<sup>1.</sup> Only the upper 50% of the 52 personal characteristics are included.

<sup>2.</sup> Only the upper 50% of the 29 personal characteristics are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

Table A18 High School Coordinators' Perceived Ability to Teach or Develop Personal Characteristics (Ranked by average scores - based on scale ranging from 1 through 9)

Average Score Responses	6.35 7.08
Rank (lowest to highest ability to teach or develop)	+am++ooso214555338853889
Characteristic	Memory Imagination Thinking quickly Willingness to do routine work Aggressiveness Ability to analyze Ability to take constructive criticism Alertness Quickness to grasp meaning Patience Tactfulness Ability to apply knowledge Willingness to take orders Safety consciousness Attention to details Outgoing-sociable Accuracy Perseverance Get people to work well Ability to organize Knowing one's goal in life Reasoning logically Congeniality Congeniality Control of temper

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Tab

Characteristic	Rank (lowest to highest ability to teach or develop)	Average Score	Number of Responses
Willingness to do extra assignments Ambition	27 27 28	7.39 7.47 7.47	አ <b>た</b> ጰ
Initiative Enthusiasm	388	7.51	<b>.£</b> 3.
Ability to talk easily with people Application to the task	T. T.	7.57 7.57	¥8.6
Self confidence Showing an interest in job Tolerance	<b>オポポ</b>	7.58 7.58	ያጀጀ
Positive attitude Hand shake	まま まま	7.58 7.58	55 55 57 57 57 57 57 57 57 57 57 57 57 5
Pride in doing work well Willingness to work on own	338	7.62 7.63	ያ ኢ
Willingness to abide by regulations Desire to help others	0† ††	7.67 7.67	ሂ <del>አ</del> ድ
Friendliness Sincerity	: 64 14 14	• •	ታ የ
Ability to get along with people Willingness to assume responsibility	455 465	· •	ታ ት
Understanding what work means Dependability	94 94	7.80 7.85	
Manners Loyalty	÷	• • .	52 53 53
Appearance Hone sty	52 52	8.19	52



### High Schools for Washington State Only

Table Al9 Importance (According to Employers of Non-supervisors) of Personal Characteristics in which Coordinators Say They Do Not Need as Much Additional Education

Characteristics	Area Code	Ranking by Additional Education Needed 1	Importance Ranking <sup>2</sup>
Ambition	MOTIV	27	*
Determination	MOTIV	28	*
Initiative	OTHER	29	7
Enthusiasm	MOTIV	30	12
Ability to talk easily			
with people	HR	31	*
Application to the task	ATTI	31	*
Showing interest in job	ATTI	34	*
Tolerance	TEMP	3 <del>4</del>	*
Pride in doing work well	MOTIV	38	5
Willingness to work on			
own	WORK	39	*
Willingness to abide by			
regulations	WORK	40	4
Desire to help others	LEAD	41	*
Smile	OTHER	41	15
Friendliness	HR	43	10
Sincerity	OTHER	ታቱ	11
Ability to get along			
with people	HR	45	*
Understanding what work			
means	ATTI	46	*
Dependability	OTHER	48	2
Loyalty	WORK	50	2 3 1
Honesty	OTHER	52	1
		•	

<sup>1.</sup> Only the lower 50% of the 52 personal characteristics are included.

<sup>2.</sup> Only the upper 50% of the 29 personal characteristics are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

For All States Except Washington

Table A20 High School Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (Ranked by average (mean) score - based on 1 through 9 scale)

	Ranking (from best to least prepared)	ing sst to spared)	Very Well EquippedI	Very Poorly Equipped <sup>2</sup> (%)	Number of Respondents
	Rank	Mean			
Coordinating skills	H	7.1	38.0	<b>L.</b>	27.7
Guldance	Q	7.1	72.0	3.5	282
Teaching with projects	т	5.7	39.1	16.3	276
Designing individual projects	<b>4</b>	5.6	η•η€	16.3	276

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lonly the per cent of respondents who emcircled 7, 8, and 9.

20nly the per cent of respondents who encircled 1, 2, and 3.

Table A21 High School Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (Ranked by average (mean) score - based on 1 through 9 scale)

Teaching Matter	Ra (from least	Ranking (from best to least prepared)	Very Well Equipped (%)	Very Poorly Equipped2 (%)	Number of Respondents
	Rank	Mean			
Coordinating skills	H	6.9	70.8	₽•†	148
Guidance	α	<b>6.</b> 8	72.3	ተ•9	<b>L</b> t1
Designing individual	က	5.9	45.8	14.6	847
Teaching with projects	ন	5.8	6.84	21.3	24



lonly the per cent of respondents who encircled 7, 8, and 9. 2011, the per cent of respondents who encircled 1, 2, and 3.

Table A22 Total Class Hours Devoted to Subject in the Community College Distributive Education Program

Subject	Median (hrs)	Range Max. (hrs)	Min. (hrs)	No. of Respondents
Accounting	45	99 <b>1</b>	0	74
Salesmanship	36	99	0	96
Advertising	30	99	0	94
Business law	20	96	0	64
Business arithmetic	1.5	66	0	84
Group discussion	10	99	O	8 <del>9</del>
Prepared talks	10	99	0	<b>7</b> 8
Basic arithmetic	10	70	0	5 <b>1</b>
Sales promotion	10	90	0	91
Supervision	10	99	0	81
Buying	9 8	99	0	9 <b>1</b>
Channels of distribution	8	66	0	90
Ability to get others to work				
effectively	6	99	Ō	84
Ability to work with others	6	99	0	81
Marketing research	6	99	0	89
Report writing	5 5 5 5 5	60	0	70
Person-to-person discussion	5	99	0	72
Basic grammar	5	99	0	41
Listening and observing	5	99	0	55
Fair treatment of minorities	5	99	0	78
Ability to deal with superiors	5	99	0	81
Stockkeeping and inventory control	5	99	0	89
Credit	5	99	0	91
Reading financial statements	5	54	0	81
Techniques and strategy for				
setting prices	5	99	0	48
Free enterprise system in general	5	60	0	66
Type of business organization	5	99	0	74
Business procedures	5 5 5 5	99	0	74
Internal organization relations	5	99	0	35
Labor-management relations	5	99	0	78
Mental arithmetic capability	4	45	0	53

(continued on next page)



<sup>1.</sup> For tabulation on IRM cards, all figures had to be 2 digits or less. As a result, "99" shown here really means 99 or more hours.

### Table A22 (continued)

### Range

Subject	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respondents
	4	00	0	77
Business etiquette	4	99 99	Ö	86
Inventory records	4	99 99	Ö	80
Bookkeeping	4	50	Ö	<b>7</b> 8
Business locations	4	90	Ö	85
Money and banking	4		0	79
Role of profit		99 50	0	69
Federal laws and regulations	4	50 60	0	62
Letter writing	3 3 3 3 3 3	45	0	46
Spelling	3	60	0	53
Statistics	3	60	0	87
Fashion trends	3	60	0	86
Transportation	3		0	22
Cash register	3	99	0	70
Forecasting	3	99	U	10
Sources of funds for starting	•	60	0	<b>7</b> 6
and operating a business	3	60	0	73
Knowledge of data processing	3	64	0	82
Ingurance	3 3 2	60 60	0	42
Punctuation		60	Ō O	
Reading for comprehension	2	60	0	35 <b>61</b>
Use of the telephone	2	21	0	60
Making change	2	99	0	44
Typewriter	2	99	0	
Calculator	2	99	0	54 20
Adding machine	2	99	0	30 50
National income	2	18	0	52
Economic cycles	2 2	54 50	0	81 72
Seasonal fluctuations				
Unions	2	40	0	67 73
Cultural development	2	99	0	73 36
Penmanship	1	45	0	30
Reading fast	1	60	0	31
World trade	1	30	0	<b>79</b>
Weighing or measuring devices	1	99	0	39
Local trade laws	1	12	0	83
ert de ee wakkamaki sa	0	64	0	31
Higher mathematics Dictaphone	Ŏ	48	Ö	60



Table A23 Total Class Hours Devoted to Subject in the Community College Distributive Education Program

		Range		W
Subject	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respondents
Salesmanship	50	90	5	18
Advertising	30	60	5	18
Bookkeeping	30	991	5 5 0	18
Accounting	20	99		18
Supervision	20	99	2	18
Ability to work with others	18	99	0	18
Business arithmetic	15	60	3	17
Prepared talks	13	50	0	16
Ability to get others to work	_			
effectively	12	99	4	18
Channels of distribution	12	99	0	18
Group discussion	10	99	0	14
Basic grammar	10	50	0	8
Basic arithmetic	10	50	0	10
Fair treatment of minorities	10	99	0	18
Ability to deal with superiors	10	99	0	18
Marketing research	10	99	0	18
Sales promotion	10	50	0	17
Buying	10	30	0	18
Credit	10	55	0	18
Free enterprise system in general	10	99	3 1	12
Role of profit	10	50	1	<b>1</b> 9
Type of business organization	10	50	1	14
Internal organization relations	10	55	1	7
Labor-management relations	10	55	0	18
Business law	8	99	0	12
Techniques and strategy for				
setting prices	6	99	0	11
Business locations	6	50	0	16
Money and banking	6	50	2	18
Letter writing	6 6 5 5	60	0	11
Report writing	5	30	O	12

(continued on next page)



<sup>1.</sup> For tabulation on IBM cards, all figures had to be 2 digits or less. As a result, "99" shown here really means 99 or more hours.

### Table A23 (continued)

### Range

	-			
Subject	Median (hrs)	Max. (hrs)	Min. (hrs)	No. of Respon- dents
Person-to-person discussion	5	60	0	12
Listening and observing	5	80	0	12
Mental arithmetic capability	5	60	0	11
Business etiquette	5	99	0	17
Inventory records	5	20	0	17
Transportation	5	30	0	19
Stockkeeping and inventory control	5	30	0	17
Reading financial statements	5	55	0	18
Typewriter	555555555555	60	0	12
Dictaphone	5	33	Ö	14
Calculator	5	33	Ö	12
National income	5	50	Ö	11
Economic cycles	5	50	ì	18
Forecasting	5	50	ī	<b>1</b> 6
Sources of funds for starting and		,,,	_	
operating a business	5	50	0	19
Business procedures	5	30	Ö	15
Seasonal fluctuations	5 4	50	ì	<b>1</b> 6
Spelling		20	ī	9
Fashion trends	3 3 3 3 3	15	Ō	15
Adding machine	ر ع	33	Ö	7
Insurance	ر ع	10	Ö	18
Local trade laws	3	30	Ö	18
Federal laws and regulations	ر ع	30	ì	14
Unions	2	30	Ō	17
Cultural development	ر ع	60	Ö	14
Punctuation	3 2	11	Ö	9
Reading for comprehension	2	55	Ö	9
Reading fast	2	55	Ö	10
Use of the telephone	2 2	20	Ö	12
Making change	2	30	Ö	12
Knowledge of data processing	2	20	Ö	16
Penmanship	1	11	Ö	7
World trade	i	20	0	13
MOLIG crade	<b>-</b>	20	V	ر.ــ
Higher mathematics	0	30	0	8
Statistics	Ö	30	Ō	9
Cash register	Ö	10	Ŏ	7
Weighing and measuring devices	Ŏ	5	C	1i
Hambure and monage and go to an	•		~	



Community College Coordinators' Perceived Need for Additional Education by Subject (Rank of average (mean) scores - based on scale ranging from 1 through 9) Table A24

	Ranking by Average Need Score	Need Muchl		Number of
Subject	least need)	(per cent)	(per cent)	Responses
Communications				
a. Writing	(	0	४ गग	67
1. Letter writing	9,00	Y - 7.	47.1	2
2. Report writing	<u>ښ</u>	- 0	100	. C
3. Spelling	To .	0.01 1.01	) ti	0
4. Penmanship	07	Y• ₩	) r	י ל
5. Punctuation	04	15.2	2+•2	2
b. Oral presentation		(		8
1. Group discussion	55	0.0	30	20
2. Prepared talks	84	17.2	<b>%</b>	5
3. Person-to-person		i t	C au	2
discussion	20	1. 5.	y a	- <del>-</del>
c. Basic grammar	25	10.3		£ 4
d. Listening and observing		19.0	7.Kt	3
e. Reading			<b>t</b>	30
1. Reading for comprehension	nsion 13	22.0 0.13.0	-04	76
2. Reading fast		37.3	V 1	ר ה
f. Use of the telephone	63	o°S	C•T0	6

<sup>1.</sup> Only the per cent of respondents who encircled 1, 2, and 3.

<sup>2.</sup> Only the per cent of respondents who encircled 7, 8, and 9.

Table A24 (continued)

	Ranking by Average Need Score (from greatest to	Need Much	Weed Little	Number of
Mathematics	least need)	(per cent)	(per cent)	ve sponse:
<ul><li>a. Basic arithmetic</li><li>(addition, subtraction, etc.)</li></ul>	99	11.9	72.9	23
<pre>b. Business arithmetic   (discounts, mark-ups,</pre>	52	18.4	62,1	87
c. Mental arithmetic capability d. Making change e. Higher mathematics	64 18 18	10°.6 18°.2 18°.2	60°3 78°8 42°4	33 <b>6</b> 28
Human Relations	1			
	38 ers 47 ties 54	17.2 17.2 13.5	58.0 63.4 6.9	8 8 8 8 8 8
<ul><li>d. Ability to deal with superiors</li><li>e. Business etiquette</li></ul>	45 58	16.5 13.3	62.6 68.9	48
Marketing				
	57 7 17	16.8 25.0 21.7	66.3 39.1 43.6	101 92 101
<pre>d. Sales promotion (displays,     tradeshows, etc.)</pre>	's <b>'</b> 19	4•0≤	38°8	86

Table A24 (continued)

ERIC Profited by ERIC

Rank Sub ject	Ranking by Average  Need Score (from greatest to least need)	Need Much (per cent)	Need Little (per cent)	Number of Responses
e. Inventory records f. Fashion trends g. Buying	33 20 16	20°1 20°1 16°4 14°6	47.3 28.1 45.9 35.9	8848
	36 23 6 55	9.6 30.9 11.6	46.8 44.3 35.8 54.7	\$ 888 \$
äl	35 8 28	22.6	47.2 47.1	88 88
keeping and financial statements)	15	25.0	43.3	85
Machines of Business  a. Typewriter  b. Dictaphone  c. Calculator  d. Adding machine  e. Cash register  f. Weighing or measuring  devices	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	27.83 37.83 4.11.44 6. 41.	50.0 37.5 55.7 52.5	£ \$%\$4 <sup>2</sup>
) ) )	ŀ			

Table A24 (continued)

Number of Responses		35	67 57	& &	5 ET	88	౭ిజే	75 87 87 76
Weed Little (per cent)		8°84	59.0 1,8.6	\$5.0 5.00	39.2 53.6	0. 44	50.6 57.8	35.9 35.9 34.0 32.9 42.0 59.0
Need Much (per cent)		11.9	16.9	10.9	22.8	17.3	19.5	51.4 23.3 21.1 20.3 15.4
Ranking by Average Need Score (from greatest to least need)	-	ategy 33	stem in 51 bo		13 13 44	(banking rities) 24	or starting 1siness 29 46	edge e of data processing lase laws and regulations 8 loo lation of the arts) 26
Subject	Economics	_	b. Free enterprise system general	Economic	Forecasti Seasonal	h. Money and banking (banking services and activities)	<ul><li>i. Sources of funds for starting and operating a business</li><li>j. Role of profit</li></ul>	other Knowledge  a. Knowledge of data processing b. Insurance c. Local trade laws d. Business law e. Federal laws and regulations f. Unions g. Cultural development (appreciation of the arts)

Table A24 (continued)

		Ranking by Average Need Score	:		
	Subject	(from greatest to least need)	Need Much (per cent)	(per cent)	(per cent)
	Business Organization, Procedure, Management				
	<ul><li>a. Type of business</li><li>b. Business procedures</li></ul>	99	11.1	70.0	٤
		59	9.5	61.2	81
	c. Internal organization relations	53	11.5	57.5	39
157	d. Supervision e. Labor-management relations	49 t <b>ions</b> 38	17.5 14.1	\$\$ \$ \$ \$	&≢

### Community Colleges for Washington State Only

Table A25 Importance (According to Employers of Supervisors) of Areas in which Coordingtors Say They Especially Need Additional Education

Areas	Area Code	Ranking by Additional Education Neededl	Importance Ranking2
Reading for compre- hension Fashion trends	C MKT	4 11	14 28
Federal laws and regulations Basic grammar Report writing Spelling	OTHER	1 <sup>4</sup>	29
	C	18	13
	C	19	26
	C	20	22
Labor-management relations Sales promotion Local trade laws Forecasting	BOPM	21	*
	MKT	23	27
	OTHER	24	25
	ECO	28	31
Listening and observing Credit	C	30	4
	MKT	31	23
Ability to work with others	HR	31	2



<sup>1.</sup> Only the upper 50% of the 67 skills and knowledge are included.

<sup>2.</sup> Only the upper 50% of the 62 skills and knowledge are included.

<sup>\*</sup> Entry isn't found in the list that employers consider d.

### Community Colleges for Washington State Only

Table A26 Importance (According to Employers of Supervisors) of Areas in which Coordinators Say They Do Not Need as much Additional Education

	Area	Ranking by Additional	Importance
Areas	Code	Education Neededl	Ranking <sup>2</sup>
Ability to get others			
to work effectively	HR	35	1
Group discussion	C	<b>37</b>	15
Penmanship	C	38	24
Mental arithmetic			_
capability	MATH	39	16
Ability to deal with			
superiors	HR	41	5
Stockkeeping and			•
inventory control	MKT	42	18
Basic arithmetic	MATH	43	7
Internal organization			
relations	BOPM	45	9 8
Use of the telephone	C	48	
Business arithmetic	MATH	48	19
Fair treatment of			
minorities	HR	50	12
Buying	MKT	52	30
Seasonal fluctuations	ECO	53	21
Role of profit	ECO	5 <del>!</del>	*
Channels of distribution	MKT	53 54 54	*
Inventory records	MKT	58	*
Supervision	BOPM	60	*
Business etiquette	HR	61	11
Person-to-person			_
discussion	C	62	3
Business procedures	BOPM	63	*
Free enterprise system	ECO	64	20
Type of business			u
organization	BOPM	65	*
Salesmanship	MKT	66	6



<sup>1.</sup> Only the lower 50% of the 67 skills and knowledge are included.

<sup>2.</sup> Only the upper 50% of the 62 skills and knowledge are included.

<sup>\*</sup> Entry is not found in the list that employers considered.

A27 Community College Coordinators' Perceived Need for Additional Education by Subject (Average scores - based on scale ranging from 1 through 9) Table

	1 10		Rumber of
Subject	least need)	least need)	Responses
Knowledge of data processing	<b>H</b> (	3.23	15
Typewriter	ω <i>(</i>	אַ בּ	റ്റ്
Reading fast	νη	C V .	οα
Higher mathematics	<b>-</b>	- t	οα
Reading for comprehension	<b>4</b> \		ר ה
World trade	۷ م	3.0	<b>t</b> α
Letter writing	Φ.	3,0	ی م
Insurance	∞ (	00.0	2 7
Dictaphone	5	02.0	<b>4</b>
Calculator	10	(な・)	ן ל די
Fashion trends	# 1	00.0	<u> </u>
Punctuation	<b>#</b>	00.0	<i>א</i> כֿ
Transportation	ლ 	8.6	ין ר ציא
Federal laws and regulations	7.	7.	0 1 6
Marketing research	<b>1</b> 7	T)•C	<b>∓</b> <sup>C</sup>
Statistics	10	0)•(	ע נ
Unions	).T	0°C	<del>-</del> α
Basic grammar	18	80.0	ر د
Report writing	19	7.91	1 5
Spelling	8 :		0 6
Labor-management relations	ਹ <b>਼</b>	T.0	- C
Cultural development	ส	1.0	27
Sales promotion	£33	מים לי	07
Local trade laws	#20	0°10	7.5
Business law		C 2 0 7	Ĵα
Weighing or measuring devices		62.0	o

### Table A27 (continued)

Subject	Ranking by Average Need Score (from greatest to )east need)	(from greatest to least need)	Number of Responses
Adding machine Forecasting	25 28	6.25 6.28	16
Techniques and strategy for setting prices	ଝା ଝ	6.33	ထင္
Listening and observing Reading financial statements Credit	31.	6.36 9.36 9.36 9.36	17 18
Ability to work with others Advertising	. 유 구 구	6.39 6.41	18
Ability to get others to work effectively Dwengred talks	35	171°9	18
Group discussion Penmanship	328	6.53	11,
Mental arithmetic capability Money and banking Ability to deal with superiors	40 11 12 13	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1885 1885
Cash register  Basic arithmetic	1 M M I	6.67	- ~ d
Internal organization relations Bookkeeping National income	7 C 7	6.70 6.70 6.75	16 18
Business arithmetic Use of the telephone Business locations Fair treatment of minorities Buying	7, 7, 7, 6, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,	6 6 8 8 8 8 8 8 8 8 8	17 18 13

Table A27 (continued)

	Ranking by Average		
	Red Score (from greatest to	Average (from greatest	Number of
Subject	least meed)	to least need)	Responses
Seasonal fluctuations	53	6.89	15
Role of profit	击	7.00	19
Channels of distribution	<b></b> **	7.00	ည္ရွင္
Economic cycles	26	7.07	ဆူ
Accounting	57	7.09	18
Inventory records	58	7.12	17
Sources of funds for starting and			
operating a business	% %	7.17	<b>Ω</b> Γ
Supervision	9	7.18	21
Business etiquette	્ય	7.24	17
Person-to-person discussion	<b>2</b> 9	7.43	† <b>1</b>
Business procedures	63	24.7	<b>#</b>
Free enterprise system in general	ૐ	7.56	य
Type of business organization	65	7.72	<b>†</b>
Salesmanship	99,	8 <u>7</u> -7	21
Making change	29	φ <b>ο.</b> α	13

Table A28 Community College Coordinators' Perceived Need for Additional Education by Subject (Average (mean) scores - hased on scale ranging from 1 through 9)

Subject	Need Score (from greatest to least need)	Average (Mean) (from greatest to least need)
knowledge of data processing	1	4.01
dictaphone	2	4.75
local trade laws	3	5.03
reading fast	1 2 3 4 5 6 7 8	5.06
fashion trends	5	5.08
world trade	6	5.17
marketing research	7	5.32
federal laws and regulations	8	5.37
business laws	9	5.45
unions	10	5.46
statistics	11	5.51
insurance	11	5.51
reading for comprehension	13	5.56 5.56
forecasting	13	5.56 5.60
accounting	15	5.62
transportation	16	5.64
advertising	17	5.68 5.70
higher mathematics	18	5 <b>.7</b> 0
sales promotion	19	5• <b>7</b> 2 5•87
buying	20	5 <b>.</b> 89
listening and observing	21	
typewriter	22	5.92
credit	23	5.94 5.05
money and banking	24	5•95 5•98
basic grammar	25	6.00
economic cycles	26	6.00
cultural development	26	6.01
reading financial statements	28	0.01
sources of funds for starting	and	6.03
operating a business	29	6.06
letter writing	30	6.06
report writing	30	6.07
calculator	32	6.10
inventory records	33	0.10
techniques and strategy for	22	6.10
setting prices	33	6.13
bookkeeping	35 +==1 36	6.16
stockkeeping and inventory con	trol 36	6.19
business locations	37	U•17
ability to get others to work effectively	38	6.20



### Table A28 (continued)

	Ranking by Average	
•	Need Score	<u> Average (Mean)</u>
	(from greatest to	(from greatest
Subject	least need)	to least need)
		_
labor-management relations	38	6.20
permanship	<del>1</del> 0	6.24
punctuation	40	6.24
national income	40	6.24
weighing or measuring devices	43	6.26
seasonal fluctuations	44	6.30
ability to deal with superiors	45	6.35
role of profit	46	6.36
ability to work with others	47	6 <b>.</b> 38
prepared talks	48	6.39
supervision	49	6.41
person-to-person discussion	50	6.42
free enterprise system in gener		6.45
business arithmetic	52	6.47
internal organization relations		6.52
fair treatment of minorities	54	6.53
group discussion	55	6.56
channels of distribution	55	6.56
salesmanship	<b>57</b>	6.58
business etiquette	58	6.59
business procedures	59	6.70
type of business organization	60	6 <b>.7</b> 1
spelling	61	6 <b>.7</b> 2
cash register	62	6 <b>.7</b> 3
use of the telephone	63	6 <b>.7</b> 8
mental arithmetic capability	64	6.88
adding machine	65	7.03
basic arithmetic	66	7.24
making change	6 <b>7</b>	7.55
manting change	<b>V</b> 1	1 • //



(Rank of average (mean) scores - based on scale ranging from 1 through 9) Community College Coordinators' Perceived Ability to Teach or Develop Personal Characteristics Table A29

	Ranking of Ability (from least to	Number of	Very Poorly Equipped	Very Well Equipped2
Characteristic	greatest)	Kespondents	(per cent)	(per cent)
Motivation or Caring About Job a. Knowing one's goal in life	ដ	411	0	90.5
b. Willingness to do routine work	9	4 <b>1</b> 1	8•4	•
e. Willinghess to to extra assignments	33	411	0	85.7
d. Pride in doing work well	<b>6</b> 4	<b>†</b> 71	oʻ	8 <b>1.</b> 0
	23	717	æ• ≠	81.0
	, 23 , 23	114	0	71.4
g. Ambition	36	113	0	85.7
h. Determination	56	<b>ח</b> בר בי	0	76.2
i. Perseverance	33	114	0	76.2
Mental Ability		,		,
a. Reasoning logically	_	114	0	<u>)</u> 99
b. Imagination	20	114	0	77°4°
c. Quickness to grasp meaning	10	113	o <u>'</u>	75.0
d. Ability to apply knowledge	30	113	8•4	85.7
_	<b>53</b>	113	0	76.2
f. Alertness	<b>.</b> ‡ .	113	0	61.9
g. Thinking quickly	†	113	ວິ	57.1
h. Memory	H	111	φ.	52.7

Only the per cent of respondents who encircled 1, 2, and 3.

<sup>2.</sup> Only the per cent of respondents who encircled 7, 8, and 9.

Table A29 (continued)

Very Well Equipped (per cent)	85.7 81.0 85.7	90.0 81.0 65.0 61.9	76.2 81.0 55.0 85.7 81.0	90.5 81.0 85.7 81.0
Very Poorly Equipped (per cent)	000	0 0 0 8°†	0 4 0 0 8 4 8 8	0000
Number of Responses	7177	113	**************************************	**********
Ranking of Ability (from least to greatest;)	32 28 14	47 36 13 9	17 33 22 45 8	7 47 26 36 16
Characteristic (	Human Relations  a. Ability to take constructive criticism b. Friendliness c. Tactfulness d. Ability to get along with	• • • • •	Work Habits and Work Behavior  a. Willingness to abide by regulations  b. Loyalty  c. Attention to details  d. Willingness to work J. own  e. Accuracy  f. Willingness to take orders	Leadership  a. Willingness to assume responsibility  b. Get people to work well  c. Desire to help others  d. Ability to organize

Table A29 (continued)

	Ranking of Ability (from least to	Number of	111 1 (1)2	
Characteristic	greatest)	Responses	(per cent)	(per cent)
Attitude Toward Job a. Understanding what work means b. Showing interest in job c. Application to the task	45 28 20	† † † † †	000	81.0 71.4 76.2
Temperament a. Patience b. Control of temper c. Tolerance	14 12 17	זה לה לה	o**	85.7 76.2 76.2
Other Personality, Behavioral Characteristics a. Positive attitude (optimism) b. Dependability c. Safety consciousness d. Smile e. Hand shake f. Self confidence g. Sincerity h. Initiative i. Manners j. Willingness to take constructive criticism k. Appearance l. Honesty	#3 36 41 30 11 72	113 113 113 113 113 113	00°,00000 0°,0 0°,00000 °,0000	85.7 85.7 85.7 85.7 85.7 85.7 85.0

Table A30 Community College Coordinators' Perceived Ability to
Teach or Develop Personal Characteristics
(Ranked by average scores - based on a scale ranging from 1 through 9)

	Rank (lowest to highest ability to	Average
Characteristic	teach or develop)	(Mean) Score
memory	1	6 <b>.91</b>
willingness to do routine work	2	6.95
attention to details	2 3 Ա	7.14
patience		<b>7.1</b> 8
quickness to grasp meaning	5	7.19
ability to take constructive		7.00
criticism	6	<b>7.</b> 20
ability to analyze	7	7.23
willingness to abide by regulation	ons 7	<b>7.</b> 23
reasoning logically	9	7.24
thinking quickly	10	7.25
imagination	11	7.28
control of temper	12	7.31
accuracy	13	7.32
tolerance	13	7.32
alertness	15	7.35
tactfulness	16	7.36
safety consciousness	16	7.36
willingness to take crders	18	7•37
willingness to take constructive		
criticism	19	<b>7.</b> 38
ability to apply knowledge	20	<b>7.</b> 52
aggressiveness	21	7.54
outgoing - sociable	21	7.54
ability to organize	23	7.60
congeniality	24	7.63
get people to work well	24	7.63
willingness to do extra assignmen	•	7.64
######################################		
knowing one's goal in life	27	7.72
perseverance	28	7.74
application to the task	29	7.76
ability to talk easily with peopl		7.79
ambition	31	7.80
manners	31	7.80
self-confidence	33	7.81
determination	31 33 34 34 36	7.82
desire to help others	<u>ع</u> َلَـٰ	7.82
willingness to work on own	36	7.84
	37	7.87
smile	37	7.87
initiative	Ji	1 • • 1

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### Table A30 (continued)

Characteristic	Rank (lowest to highest ability to teach or develop)	Average (Mean) Score
positive attitude hand shake loyalty showing an interest in job enthusiasm ability to get along with people understanding what work means pride in doing work well willingness to assume responsible friendliness appearance dependability sincerity honesty	46	7.88 7.89 7.90 7.95 7.96 7.98 7.99 7.99 8.04 8.06 8.07 8.07

### For Community Colleges in Washington Only

Table A31 Importance (According to Employers of Supervisors) of Personal Characteristics in which Coordinators Say They Especially Need More Education

Characteristics	Area Code	Ranking by Additional Education Neededl	Importance Ranking <sup>2</sup>
Memory	MENTAL	1	*
Attention to details	WORK	2	14 *
Thinking quickly	MENTAL	4	*
Alertness	MENTAL	4	*
Accuracy	WORK	8	*
Outgoing - sociable	HR	9	*
Ability to take	•••	11	9
constructive criticism		11	*
Control of temper	TEMP	13	*
Congeniality	HR	13 14	*
Patience	TEMP	14 14	13
Tactfulness	HR	14 16	*
Ability to organize	LEAD		*
Tolerance	TEMP	17	•
Willingness to abide by regulations	WORK	17	10
Willingness to take	WORK	20	*
orders	ATTI	20	*
Application to the task	MOTIV	23	*
Aggressiveness	MENTAL	23	*
Ability to analyze		23	7
Enthusiasm Get people to work well	MOTIV LEAD	26	*



<sup>1.</sup> Only the upper 50% of the 52 personal characteristics are included.

<sup>2.</sup> Only the upper 50% of the 29 personal characteristics are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

Table A32 Community College Coordinators' Perceived Ability To Teach or Develop Personal Characteristics (Ranked by average scores - based on scale ranging from 1 through 9)

Characteristic	Rank (lowest to highest ability to teach or develop)	Average Score	Mumber of Responses
Memory	г	84.9	21
Attention to debails	ณ	•	50
Safety consciousness	m	6.86	57
Alertness	<i>i</i> ‡	•	てる
Thinking quickly	<i>i</i> ‡	6.95	เร
Willingness to do routine work	9	7.00	เร
Reasoning logically	<b>}</b>	7.05	てる
Accuracy	Φ	7.10	てる
Outgoing-sociable	δ	7.14	ದ
Quickness to grasp meaning	10	7.20	03
Ability to take constructive criticism	п	7.24	ನ
Control of temper	11	7.24	ਰ
Congeniality	13	7.25	50
Tactfulness	77	7.29	は
Patience	74	7.29	덩
Ability to organize	16	7.33	เรื
Willingness to abide by regulations	17	7.38	ਟਿ
Tolerance	1.7	7.38	21
¢ppearance contract	1.7	7.38	<b>51</b>
Imagination	SO	7.43	tici
Willingness to take orders	20	7.43	T.Z
Application to the task	20	7.43	i.ci
Enthustasm	23	<b>7.</b> 48	.: .: .: .:
Aggressiveness	23	7.48	ิ่งี
Ability to analyze	23	7.48	เร
Determination	56	7.52	ผี

Table A32 (continued)

Characteristic	Rank (lowest to highest ability to teach or develop)	Average Score	Number of Responses
Get people to work well Friendliness Showing an interest in job Ability to apply knowledge Manners	30 30 30 30 30	7.52 7.57 7.62 7.62	<b>ដ</b>
Willingness to take constructive criticism Willingness to do extra assignments Perseverance Loyalty Ambition Ability to talk easily with people Desire to help others Dependability Self-confidence Initiative Knowing one's goal in life Pride in doing work well Positive attitude Willingness to work on own Understanding what work means Ability to get along with people Willingness to assume responsibility Smile Hand shake	20 44 44 44 44 44 44 44 44 44 44 44 44 44	2.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	ត
Sincerity Honesty	50 52	8,00 8,19	13 13

### For Community Colleges in Washington Only

Table A33 Importance (According to Employers of Supervisors) of Personal Characteristics in which Coordinators Say They Do Not Need Much More Education

Characteristics	Area Code	Ranking by Additional Education Needed	Importance Ranking2
Determination	MOTIV	26	*
Showing interest in job Ability to apply	ATTI	28	*
knowledge	MENTAL	30	11
Willingness to take			
constructive criticism	OTHER	32	*
Perseverance	MOTIV	33	*
Loyalty	WORK	33	4
Ambition	MOTIV	<b>3</b> 6	*
Ability to talk easily			
with people	HR	36	*
Desire to help others	LEAD	36	*
Dependability	OTHER	36	2
Initiative	OTHER	41	5
Pride in doing work well	VITOM	42	
Positive attitude	OTHER	42	15
Willingness to work on			
own	WORK	45	*
Understanding what work			
means	ATTI	45	*
Willingness to assume			
responsibility	LEAD	47	3
Ability to get along			
with people	HR	47	*
Sincerity	OTHER	50	8
Honesty	OTHER	52	1



<sup>1.</sup> Only the lower 50% of the 52 personal characteristics are included.

<sup>2.</sup> Only the upper 50% of the 29 personal characteristics are included.

<sup>\*</sup> Entry isn't found in the list that employers considered.

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For All States Except Washington

Table A34 Community College Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (Ranked by average (mean) score - based on 1 through 9 scale)

	Teaching Matter	from (from least p	Ranking (from best to least prepared)	Very Well Equipped (%)	Very Poorly Equipped2 (%)	Number of Respondents
		Rank	Mean			
	Coordinating skills	H	7.3	75.9	2.9	104
	Guidance	α	7.0	68.0	5.8	103
17	Teaching with projects	æ	0*9	45.6	12.9	101
4	Designing individual projects	m	6.3	54.0	10.8	102

lonly the per cent of respondents who encircled 7, 8, and 9.

<sup>20</sup>nly the per cent of respondents who encircled 1, 2, and 3.

Community College Coordinators' Perceived Need for Additional Education in General Distributive Education Teaching Matters (Ranked by average (mean) score - based on 1 through 9 scale) Table A35

	Teaching Matter	Ranking (from best to least prepare	Ranking (from best to least prepared)	Very Well Equippedi	Very Poorly Equipped2 (%)	Number of Respondents
		Rank	Mean			
	Coordinating skills	<b>-</b>	6.9	<b>4.89</b>	15.6	19
	Guidance	N	6.5	57.9	5.3	19
175	Designing individual projects	က	5.9	ης <b>.</b> 1	14.6	19
i	Teaching with projects	7	5.3	27.8	25.23	18



Only the per cent of respondents who encircled 7, 8, and 9.

<sup>2</sup> Only the per cent of respondents who encircled 1, 2, and 3.